

GREENBERG

1982 - Warbler
Collection log

1983 - WEW
Maryland

1982 log of
the Webber collection

March 1992

As of ~~20~~ 7 March

I had 26 warblers:

7 CSW

4 BBW

6 MYW

4 MW

4 CMW

before leaving for Puerto Rico

I uped the lgt to 13^{13 1/2 hrs} hrs.

1 CSW began to molt ~~2~~ 2 March,

^{sub-}Singing was at a low level,

but involved several individuals.

The week after I got back

22-30 March I uped lgt to

14 hrs (too much!) - since no

birds had begun to molt but

CSW Blue.

CSW yellow/black when molting

1st week of April +

Myrtle's Pink + Pink-yellow

were in spring plumage via WCC.

~~by A~~

Singing was intense by last few

days of March - in CSW, MW,

BPLW, BTB etc. in particular.

March 24 I placed BBW^(R)
B+R(♂) in double Avery
with Hemlock branches +
dangling. I put Blue + pink +
yellow in 25 March to 100)
Avery.

Red + Blue-Red also got
CWL + W, BBW next day
but BBW chased CWL too
much + CWL BBW may not
have been eating.

Blue + Pink + yellow show
little aggression, but Red +
Blue + Red had to be
separated. Red in spencer
right-hand Avery.

March 26

We offered soaked c-vents
to all 4 birds + Blue +
pink + yellow went for
them in a big way!

We play med-hulek then
to get juice.

We put all whistles back
on egg-eggshell mesh +
stopped up vionate.

BBW

March 27-28 ♂♂ are singing
a lot + ♀♀ are pulling at
foliage + attracted to white
exclusion. ♂ Blue follows ♀
around (♀ is skittish, lady
♂) + some aggression is
noted.

Both ♂ hop high + forth in
front part of cage a lot.

No sign of molt.

All birds are tame around
people + visit food dish readily.

April 5 I took pink, ♂
red + green ♀ My L +
B♂ + P♀ CWL to bird house.

They are put in large white-metal
cages. The situation is
more disturbed than is good,
all birds are a. fly around
top of cage a lot.

April 6 9:00 B♂ CWL was
sight outside at 730 am by
keepers. All birds but him
approach food dish when I
watched - ♂ My L → ♀ My L a lot.

Warm-acting warbler
 1 May: ^{disturbance} non-singing bird low to 10'
 brush stem grub then
 crawled up small tree &
 probed at 6' Maple down leaf
 ✓ & probed 2-3x at newly
 emerging maple leaves. (Long ground
 for short while)

7:30-12:00 ^{just out into} along access Rd
 3 May: Singing ♂ in cherry oak?
 shrub, then 30' in tree

✓ gleaned leaves 7-10 times including
 2 times at promerical ex: 1

Blue tree: 1

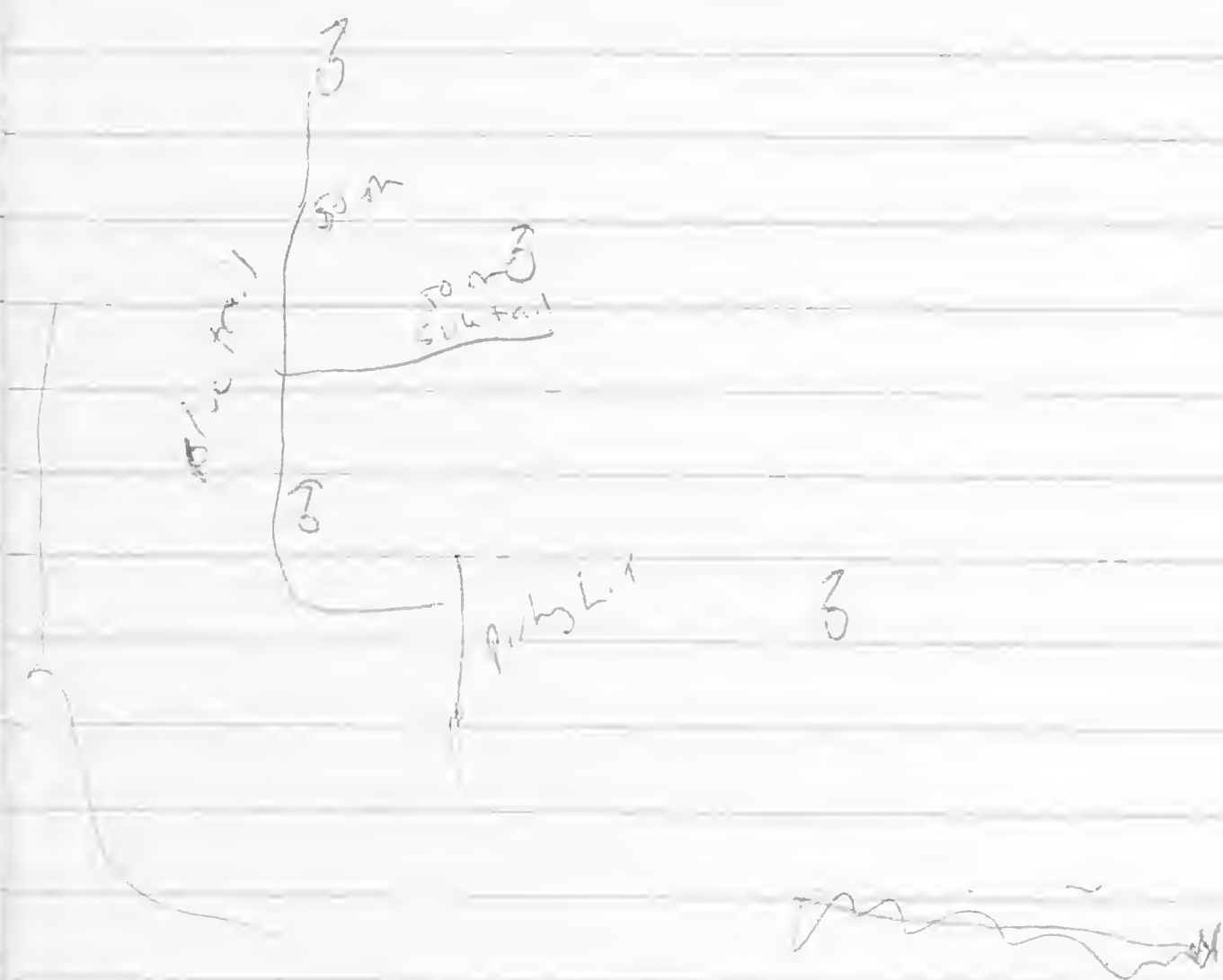
✓ ♂ - Eq Lb 8x petiole glen x 1
 cherry oak x 15-20'

✓ ♂ ^{0.4} ^(1.1 x 1.5 x 1.5) ⁴
 lg x 1 lb, lg x 2 lb, lg x 1
 Eq 1 lb x 5 ^{Black oak} - 35 - regular
 site trail

✓ ♂ Lt sl x 3, 1 bgl x 4 - cherry oak

✓ ♂ Lbgl x 2 - tree slen

same



other species:

WEW	9
S. Towhee	4-6
Junco	15
REW	6
I. Bunting	6
ESW	2
BTB	4-8
YRW	20
Titmouse	
B. Jay	
C. chickadee	
L. warbler	13
YU	1?
H. Warbler	1
C. flycatcher	

4 May 5-10-10-11

low on cross road -

✓ ♂ in understory 3' - Laurel ^{Dead} leaf check

Flu to chestnut oak canopy - 4 lb sl
9 o'clock in pond

5 May 7:30-11:30
Across Rd.

✓ ♂ 40' in C. Oak. 22 lb - 17 slen
Thong
1 b. slen
1 l.f. prim. red. en

White trail I walked = 300m +

Found 4 ♂ Wew.

about 100m I found 3 ♂

in close proximity - I found

✓ 1st ♂ in D. h. 30' - 1b sl x 3

1 h. h. h. slen, 1 l.f. prim. red. slen -

then I saw it drive into dense

Level und. strug. I heard lots of

front dppg - 1 sin at 11/12

2 WEL choring with wgs sl, L)

spread - both dry, wind, at time,

So I assume both were ♂♂

✓ I see both but, probe does leave,

(No hanging on last) - 9 x - all 1.4

(rows) in Local. 2nd 8 - p. 12 out

gibt es 7 + 16 = 23 (kommt?)

b/c of 1 x 1. Sin T-10 min

16 glass - by both birds in ovals

5 May

Shutty 100 m down trail

✓ I saw sir, ♂ 40 - p in flower (12)

O.K. (not client O.K.) - 10x if
packed at O.K. (other).

$\frac{1}{2}$ hr later I returned to

got of back interaction, work

10 minutes, 3 birds were back
- one chewing.

\sqrt{I} saw 3125 (2.11, 11.11)

1 draw left ^{proh} (0.4) - draw branch 2' up

had broken on ground briefly

1 bark glass.

May 730-

I walked from parking lot

to top of hill where to (2) 1/2

along ridge, I saw 2-3

WEN on some squabbling

Few 20, 40, 50 - (2) 1/2

✓

hgt x 12

flourish x 12

hgt x 2

flourish x 2

hgt hgt 15-1

✓ Change to understory by river

in

Ash?

(3) 1/2

- 0 white perches

hgt

hgt - minimum

g. 1/2

Map indicating hgt hgt

SA BT-0 Britain ch. 11 & 12 trail -

3 WEN along 20 c. 0.4

✓

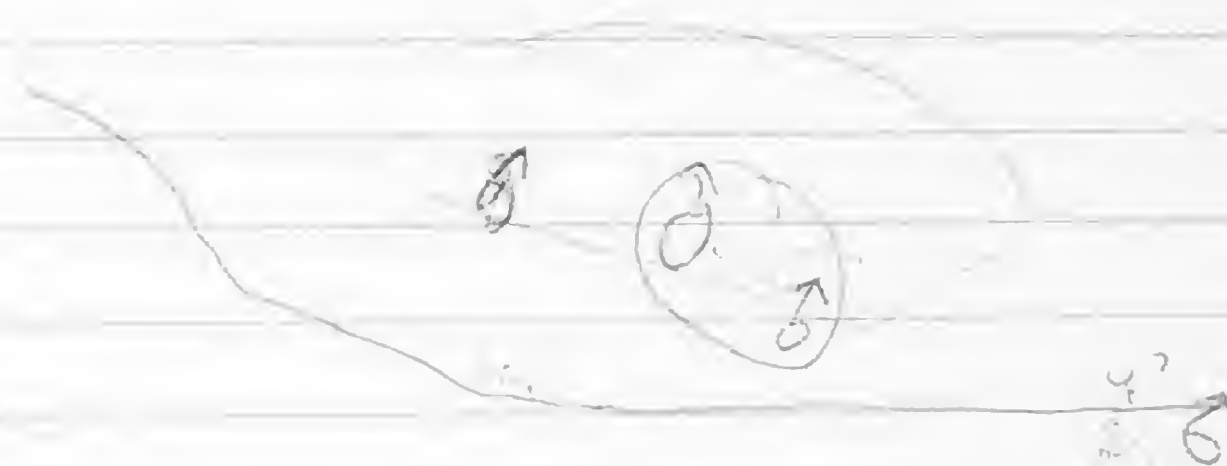
hgt x 10 (3 hgt 11.1) b hgt - 2
petiole, 1/2 hgt

Horizontal hgt - 1/2

✓

7 x hgt

May 2



✓

flourish x 3

2 or 3 or 4

3-4 WEW in area around
rocky outcrop at beginning of
blue/white trap-

3. Surin (Dok) int. 1. g. 2.

(iii) All other

through underlying $U-1'$ str
ground

✓ q - Anzahl der $k_2 \times 1$ = verteilte Aufgraben
nachher 13

✓ Chest 4 carb 1h glow

2. Law of Inertia

bush birds flying in ^{low} among trees.

I went down blue tent

at Junction of Huron trail & Blue-

✓ 6 Sins, 30 in oak 10.1x4
10.1x4

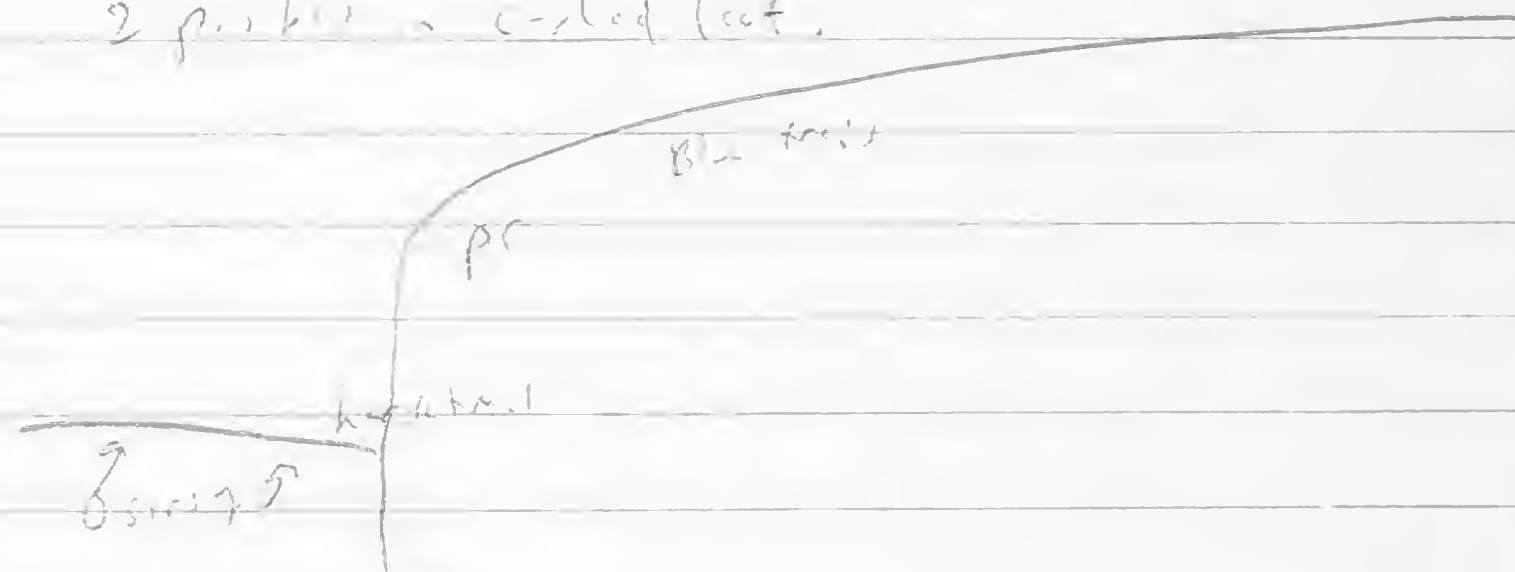
about 20cm down trail I saw one yg bull

✓ vol comp ≈ 40 16.1 x 4 x 16.9 x 3 -
integer

flow into understorey & chapped with
moisture below.

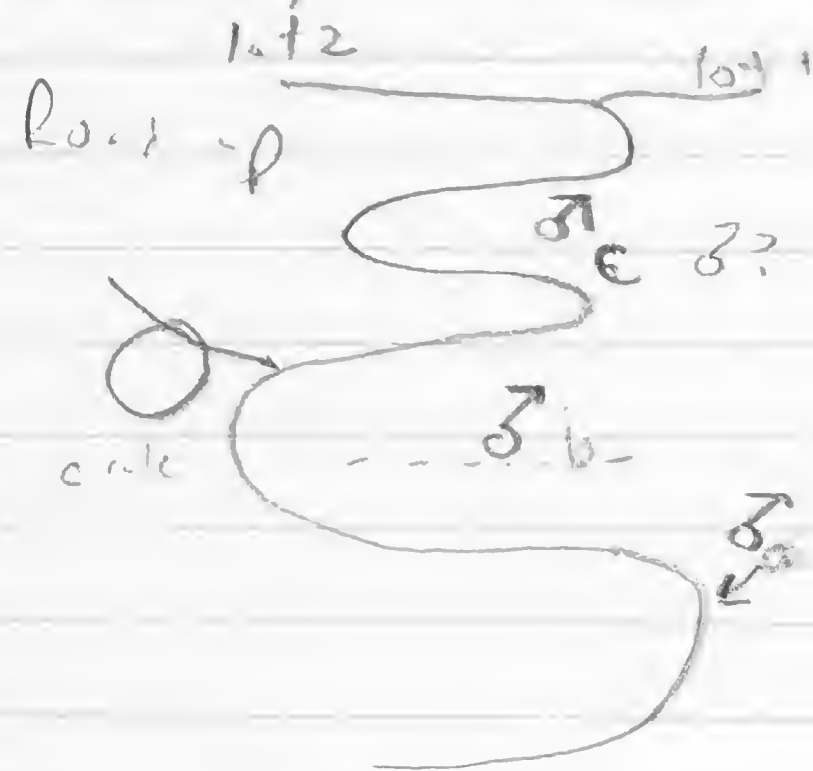
at curve in trail I chattered

✓ 12-15 lb (25 haug, 1 kg)
2 packets - coded (cat.)

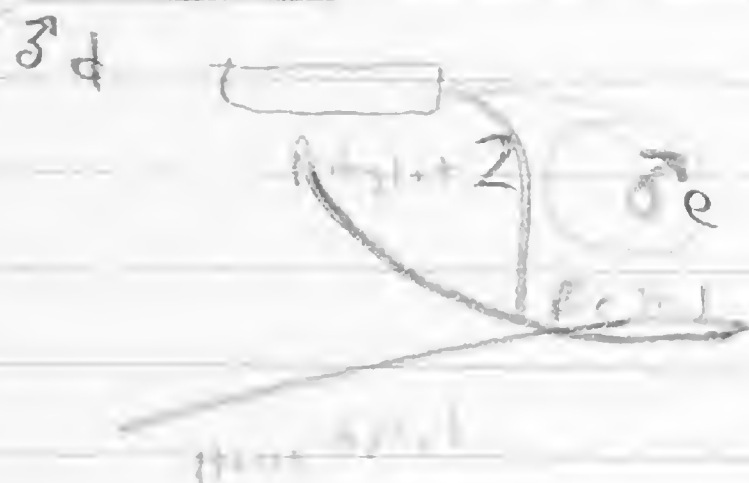


On Line pink area has

13 May 730-1200



3 female



Foraging data

✓ a 20' High Cack - 16 x 6
retrop. 11/12

✓ b 30' Cack 16 x 2 10 x 5

✓ c 30' Cack 16 x 5

✓ 15' 16 x 2 - 16 x 1

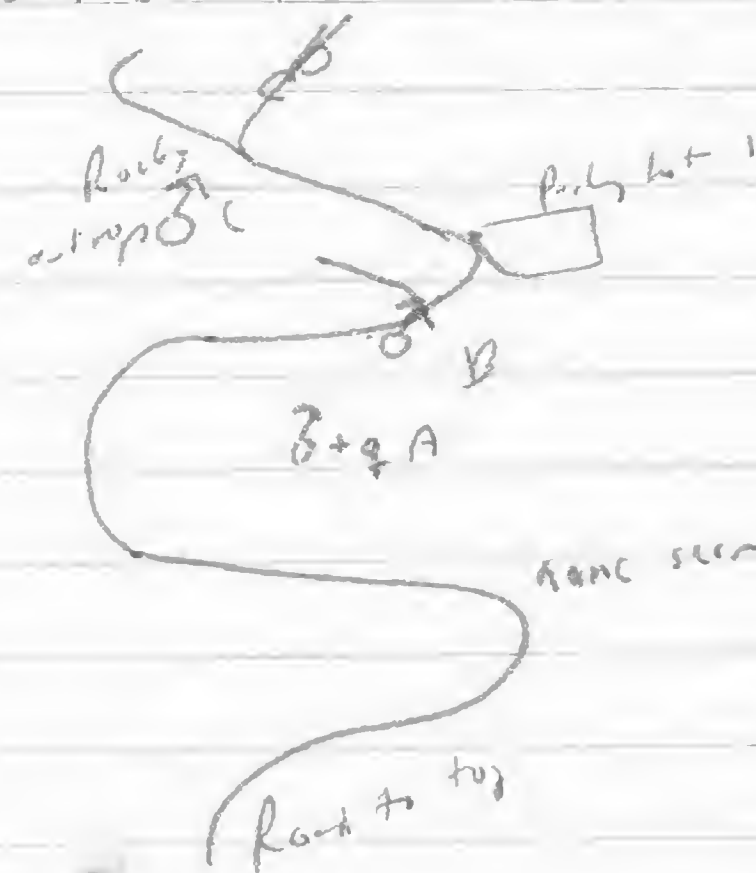
16 x 5

✓ 40' 16 x 7

✓ 30' continued to sing more
from the door - but I
saw no ♀

May 17

walked up Rock to top lat
to hearing of Blue + Horned +
up white tree.



♂ A chard q q was on

ground a lot "bury for

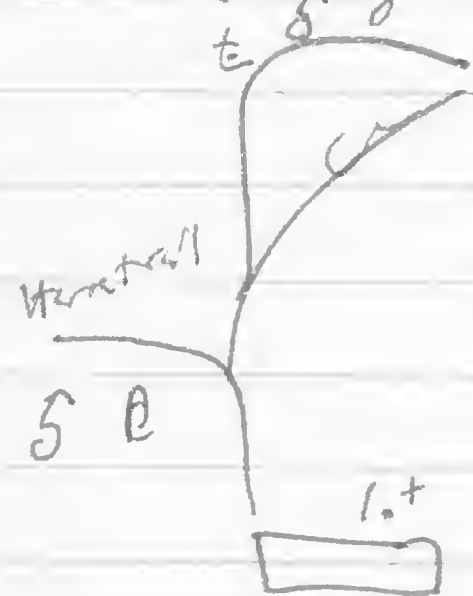
nist site?) no for, or

ground ♂ found 10' in shrub.

✓ ♂ 35' c.o. with leaf damage

level ^{probe} green 210 3 caterpillars

✓ ♂ c 5 x 3 by 35' c.o. 1 caterpillar



✓ male P 30' c.o. 1 bsl 5 - level x 1
2 caterpillars

✓ male P 25' c.o. 1 bsl x 5

✓ male P 35' c.o. 1 bsl x 2

May 18 8:00-12:00

stayed at top area

watched feeding along with

8:00-9:30 11:30-12:00

tree (on slope) had pr

small times chipping in

shrubbery - one was up

✓ into c.o. - pulled 3x leaf level
slowly got 1 caterpillar

one bird nabb'd me 2 times

♂ in widely separated places

♂ - a not singing at all

hd ♂ down track & slope

went to third trail ♂

✓ 30' CO. last cut probe 25

5th 3 samples

dun blue trail white ♂ at Bird

✓ 25' C.O. 11/5/3 1st probe 25

hd ♂ down slope

went to "cannon" area - be 2

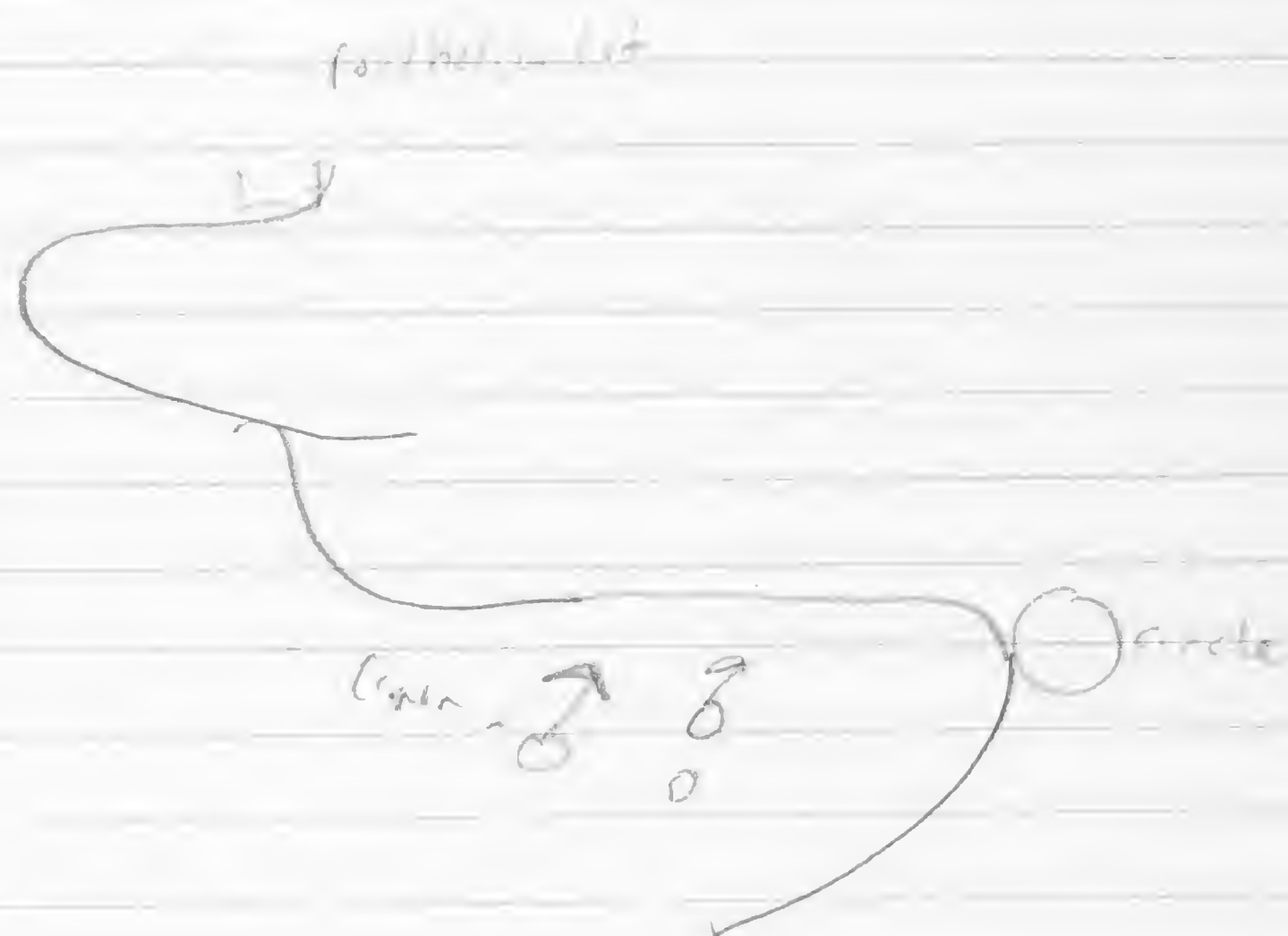
♂ near each other

✓ ♂ on when not singing - 20' - C.O.

16/1/42

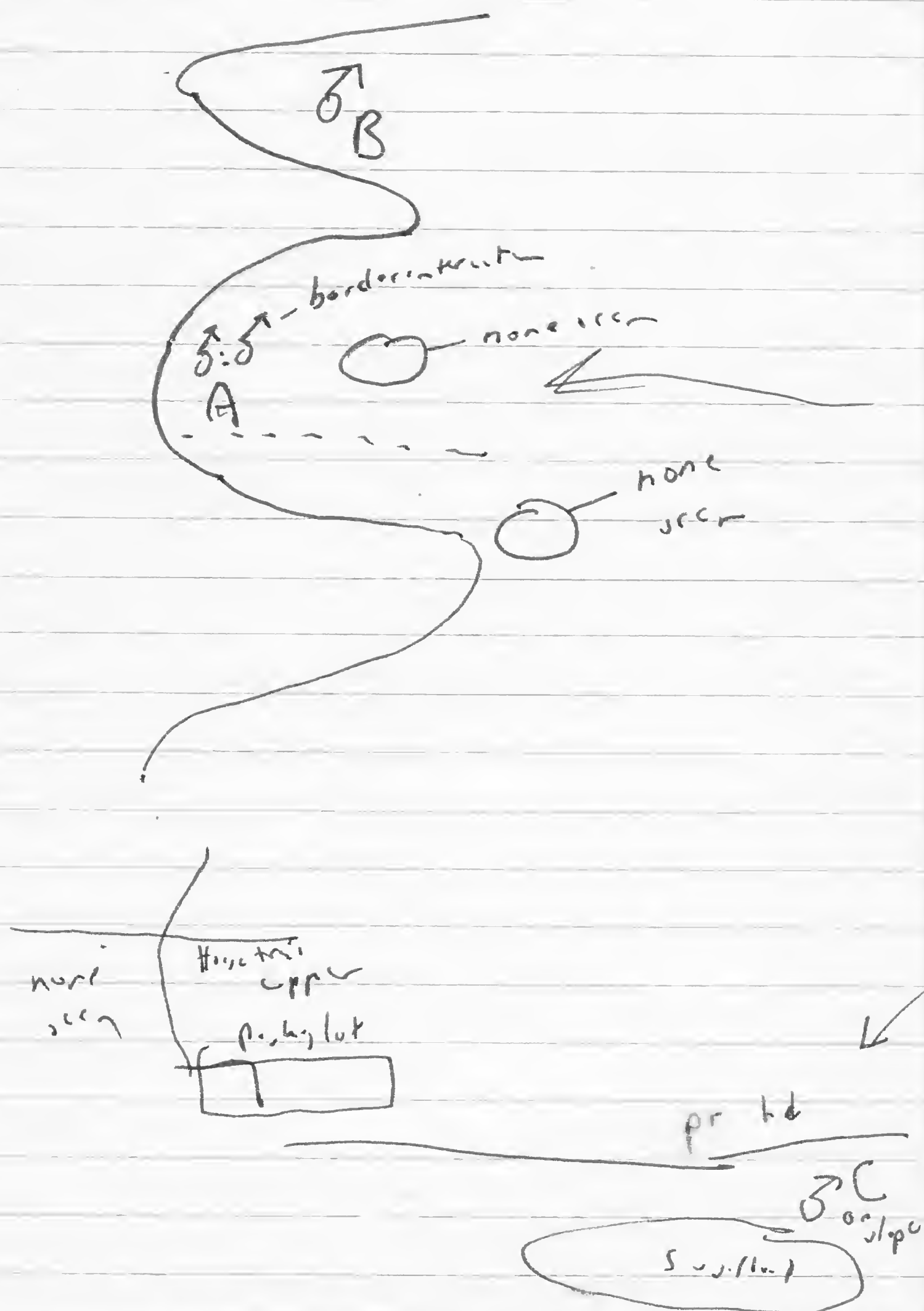
✓ 7th ♂ last cut probe 25 - 25
2nd 1/1/42

May 17



19 May 830-1230

I checked the following territories



✓ ♂ A 5-10' 1b green C.O/Azalea ground feed, Dead leaf probe x 2

✓ ♂ B 40' 1b g l

✓ ♂ C 20' hg @ 2' 1b - 1b l x 4

note
Territories where ♀ have been seen

♂ stop singing all together

singing, he stopped on a third territory.

7 juv ♂: ♂ interaction at territory A - as usual

chasing each other near ground.

Monday 23 May 1200-1500

I checked territory by ^{white} Blue Trail -

saw & heard nothing. 3 was

singing on the territory on slope.

I cut down towards Blue trail

✓ from white trail & found 3 singing

low in understory (C. Oak 16 glen x 6).

it went into ^{lower} ~~Acacia~~ bush &

continued to sing.

♂ at 1st corner of ~~at~~ P. trail

could not be found, nor could

♂ at Horse-trail - Blue trail det.

I went to lower pencil cove

(by (unum) & from roadside &

saw 9 foraging rapidly 20'

✓ in c. Oak (16 gl x 3). FL

dropped onto ground & disappeared

It was on a nest - looked

under the small honey-suckle plant on

open hillside. - 4 Larkspur 1 (unbird

egg.

I collect 100 leaves from lowest

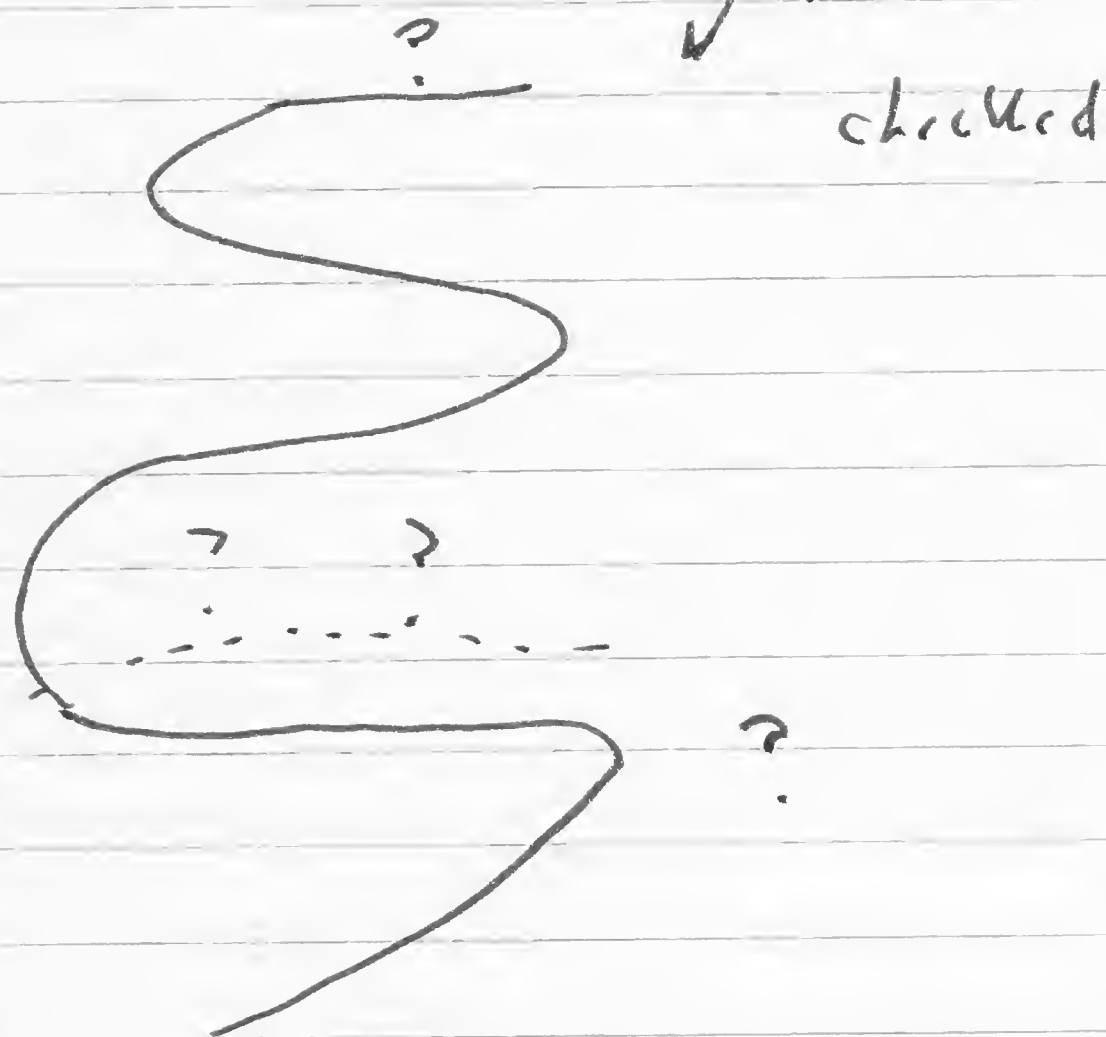
trail.

Tuesday 24 May 745-1245

I check a number of

territories today without hearing

or seeing a WEL.



+ I checked territory on

side of white trail for

territory approximately 1 hr -

I had birds claim at

one point.

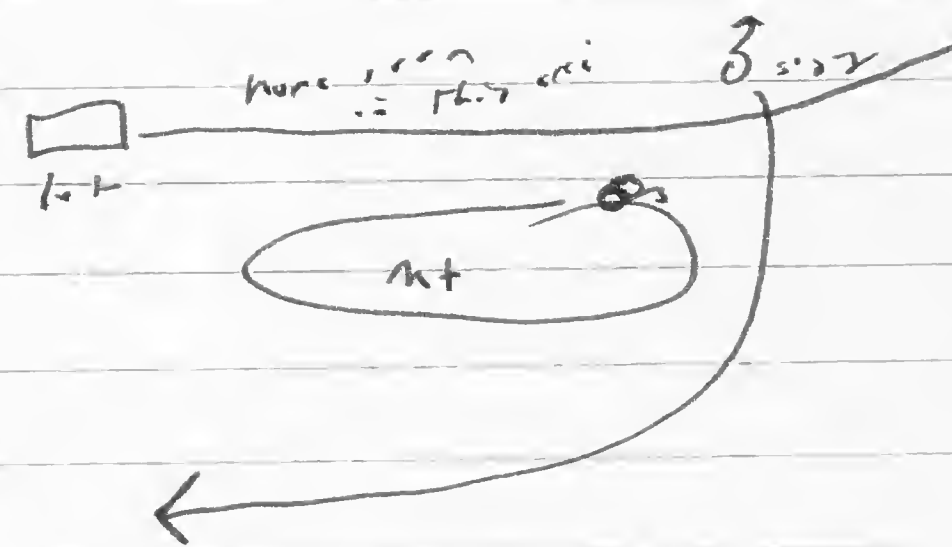
27 May - cool breezy 730-3:00

checked first territory at bend
of road - no birds seen.

went up to Circle area where I
followed singing ♂ 15-20' in c. o. u.
16 gl x 15, 1t sl x 2, hg x 2, 1t f. d. g.
✓ probe x 5 hg 2" - got 2-3 'pillars'.

went to top parking lot + checked

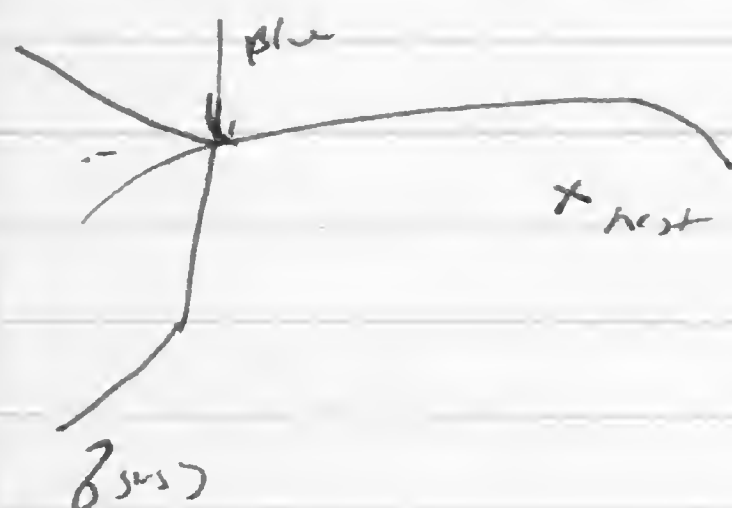
while
slope below the trail ♂ hd



✓ watched for 1 hr saw see.

10' 16 gl x 5 hg 2" x 1

Found nest in territory at
intersection of Horse Trail & ^{Blue} ~~white~~ trail



♂ brought in black pillar - ♀ sat

crith, from dead leaf as I watched

once again at base of small shrub.

3 young, 1 high (cubed), 1 egg -

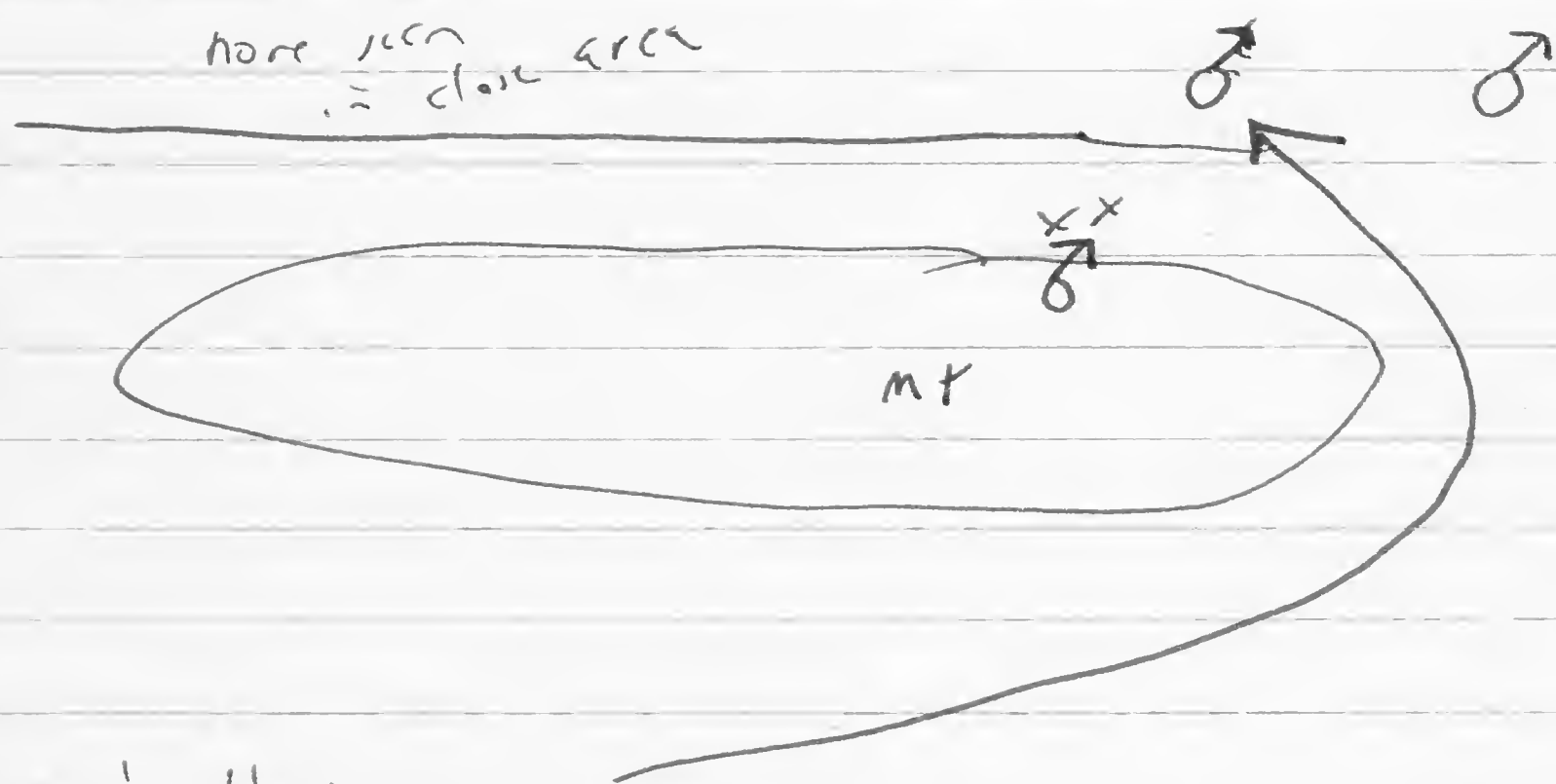
✓ I found singing ♂ on blue trail bud
• 10' 16 ft x 5 C-ock
sat 1 pillar
black glass

I checked slope below
white trail & then
I checked slope at first
band in road & saw no more

28 May 800-1:00 cloudy + calm

check slope below white trail

seen + heard 4 + ♂. ♂_{new}



20' 16g1x5

Found P.E. Vireo nest with 3 eggs + 1 unhatched egg

30 May 800-300pm
cloudy - showers until noon -
then clearing up.

I worked up rd - thought I

had singy ♂ along first stretch -

checked "corner" territory + saw

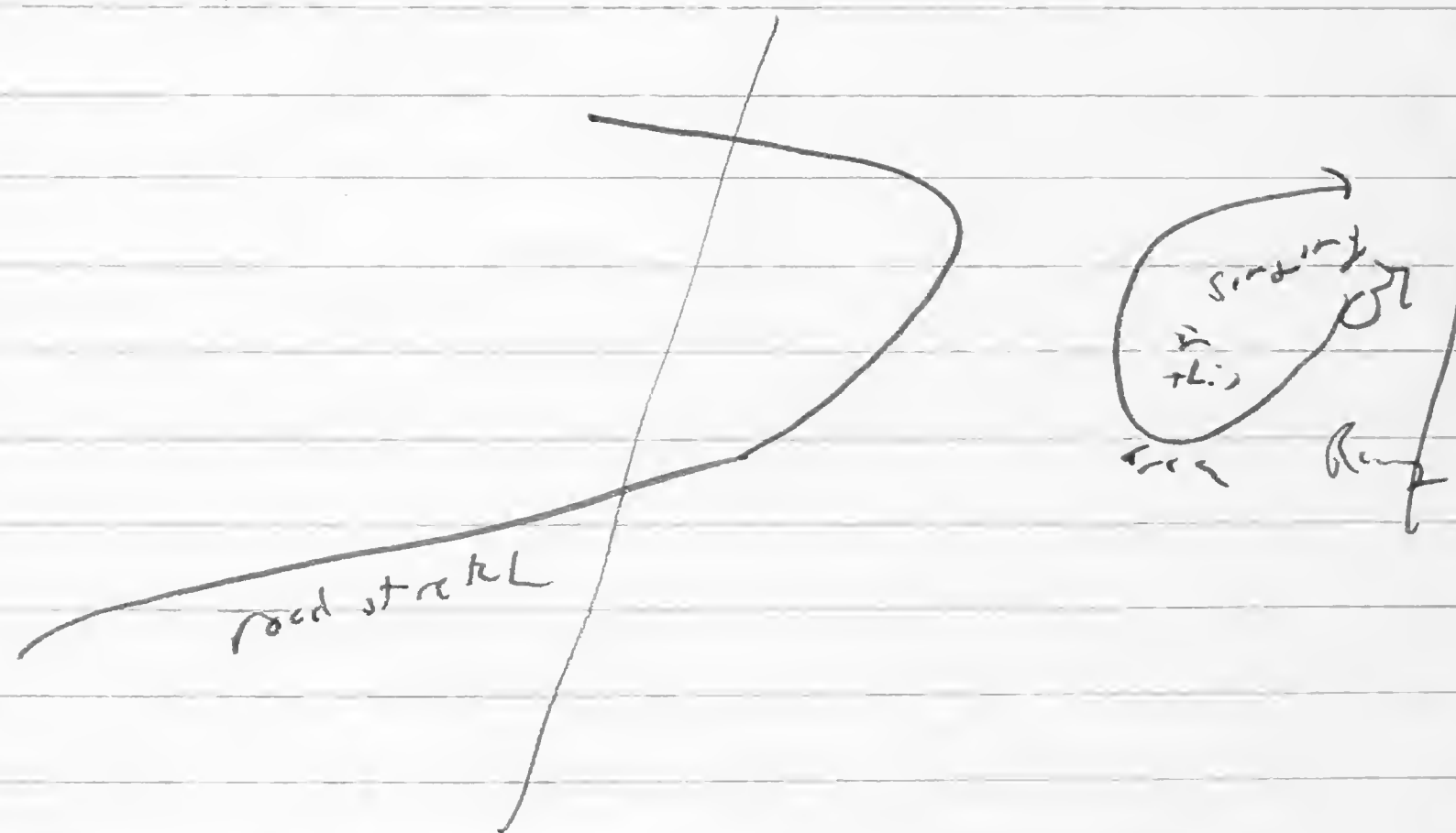
2 WEW chirping + chipping thru

had 2 ♂♂ singy. ♂ singy from

had

usual area

trail
NEW seen chirping



✓ seen low in 100-odd 10' 16g1

the 5 song 20' c.o. u
✓ 16 gl x 5 D. wood lat gl x 1

~~I drove to top~~ I checked
area above trail + saw nothing

I drove to top + worked slope

below white trail. hd 4? ♂ in

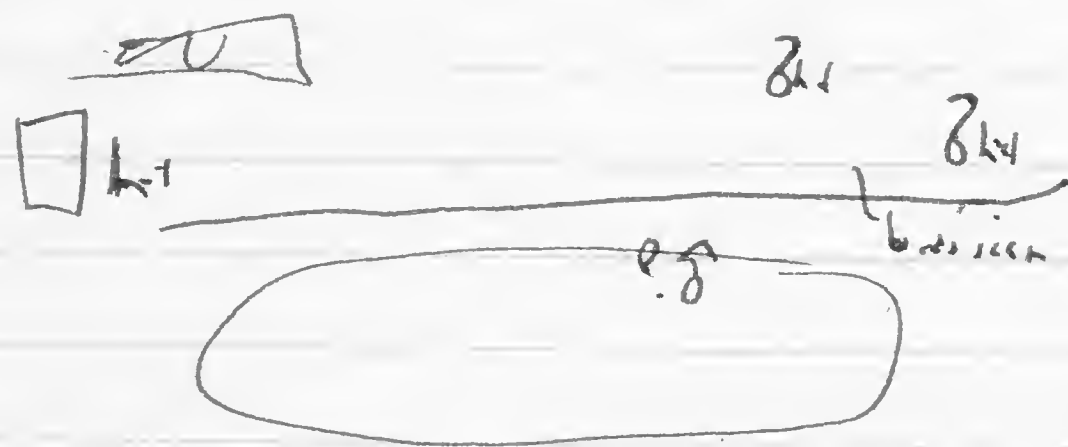
area - saw bird ^(bird) come from low

in under the maple off nest.

✓ 20' 16 gl c.o. dead lat (ch lat)

hanging in oak gl. ~~to~~ branch gl.

✓ 2nd bird - dead lat ^{ch lat} ^{gl} in ^{gl} - gl.



I look next at Horse trail + Blue trail

- it was empty + rather dry

stream near opening. ^{LEU} bird + REV

mobbed me 20' - checked
chipping loudly

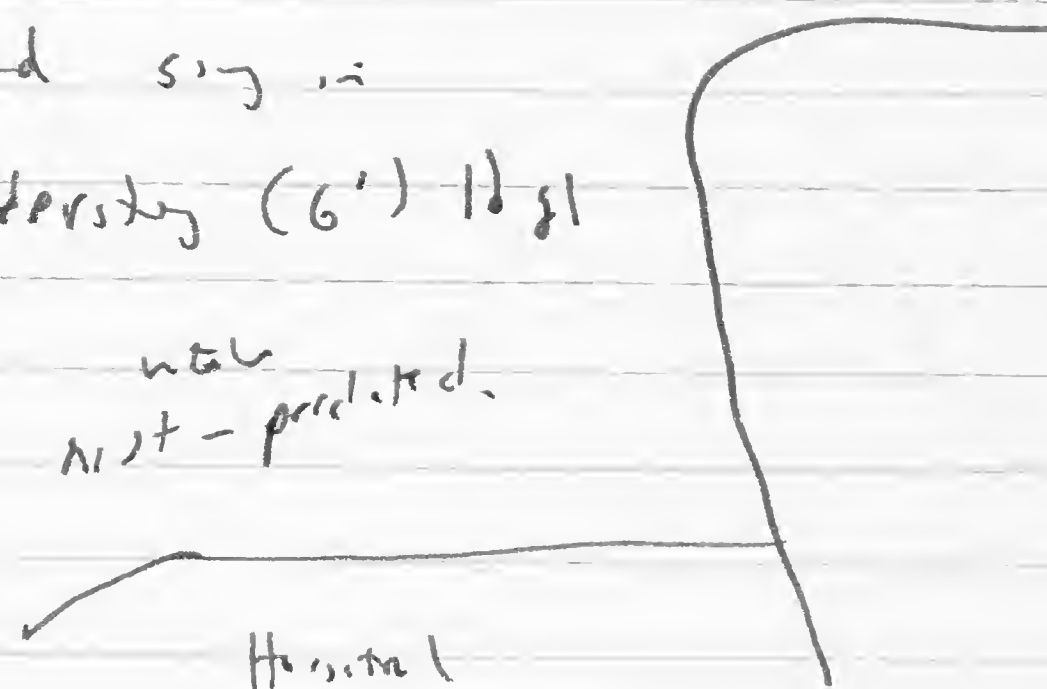
✓ dead lat cluster in oak (ch lat)

I found bird at blue trail
♂

bird sing in

✓ understory (6') 16 gl

with
nest - predicted.



I walked 100 ft

near traffic circle

31 May 815 - 300

Overcast to partly cloudy

the

top Parking Lot - Area -

✓

I watched from Talar slope

1st

The slope facing 3 was singing from

all

tall (Oaks) some down once -

3 - no qy.

1

I walked along slope below White

below

trail & saw 2 sets? of

LEW. The first: - one came

a

pushing out of Laurel shrub. I

got down & Ld soft & subsinging

✓ (leaving-like chattering) at Ld gl Azules

leaf. then I lost it.

✓

2nd is end ♂ & it pre-met

h

g. ♂ & another briefly chirping

✓

bird moved together through

understory - occasionally ♂ would

go up into low canopy.

♂ from understory song

soft & shortened songs

Foraging: deciduous shrub under lbg

Ar-nd lbg

✓

(O lbg) + kg (q got p: Hvr)

It forage for + pulled.

♂ - dead latching back leaf in Oak

leaf. dead leaf (Oak: Laurel)

✓

~~was~~ peeped in leaf

2 times I saw birds Perage

on ground.

1 probe Oak leaf - got pillar

New q?? in this territory

May 31 - 1208 overcast

Leaf (cans) - 1000 level

Level 1500 oak etc.

50 - 0

50 - 4mm opilionid H

3mm black/red beetle lb

50 - 0

50 - 0

50 - 0

50 - 0

50 - 7mm green longhorn H

50 - 0

50 - 0

50 - 0

500 - 50 - 2m?

50 - 0

50 - 0

50 - 0

50 - 0

50 - 0

50 - 0 3mm fly H

50 - 0

50 - 0

50 - 4mm opilionid

2/1,000

Sanctus 50

(2cm wood chip) 1b

3mm spider lb

2mm hemip lb

6 or 4mm microp lb

20

15 1mm microp lb

4mm fly H

2mm hemip H

20

- 0.6 4mm tick lb

50

- orple 5mm black p.m. H

Hickory 50

2-2mm green hemip lb

Cherry - 50

1cm black p.m. lb

Alum + Oak 50

4mm black p.m. lb

3mm spider lb

C. Oak 125

3mm fly H

120

C. Oak 50

2 x 3mm black spider

H + duple

2mm beetle H

" 50

- 0

" 50

7mm spider H fly

2mm beetle H

Hickory 50
" 50

1cm fly 14
-U

? 50

2cm wasp 1b

Smaller 50

30
microtop 5

Maple 50

4cm 2nd 1b

200 / Hickory 50

5

Maple 50

Smaller 50

3cm 2nd 1b

Hickory 50

4cm 2nd 1b

4cm black + red

centered huckle 1b

O. l. red 50

5+

2cm spider 50

Maple 50

Hickory 50

50 50

0

Maple 50

-U

Hickory 50

-6

Hickory 50

0

Maple 50

-U

Maple 50

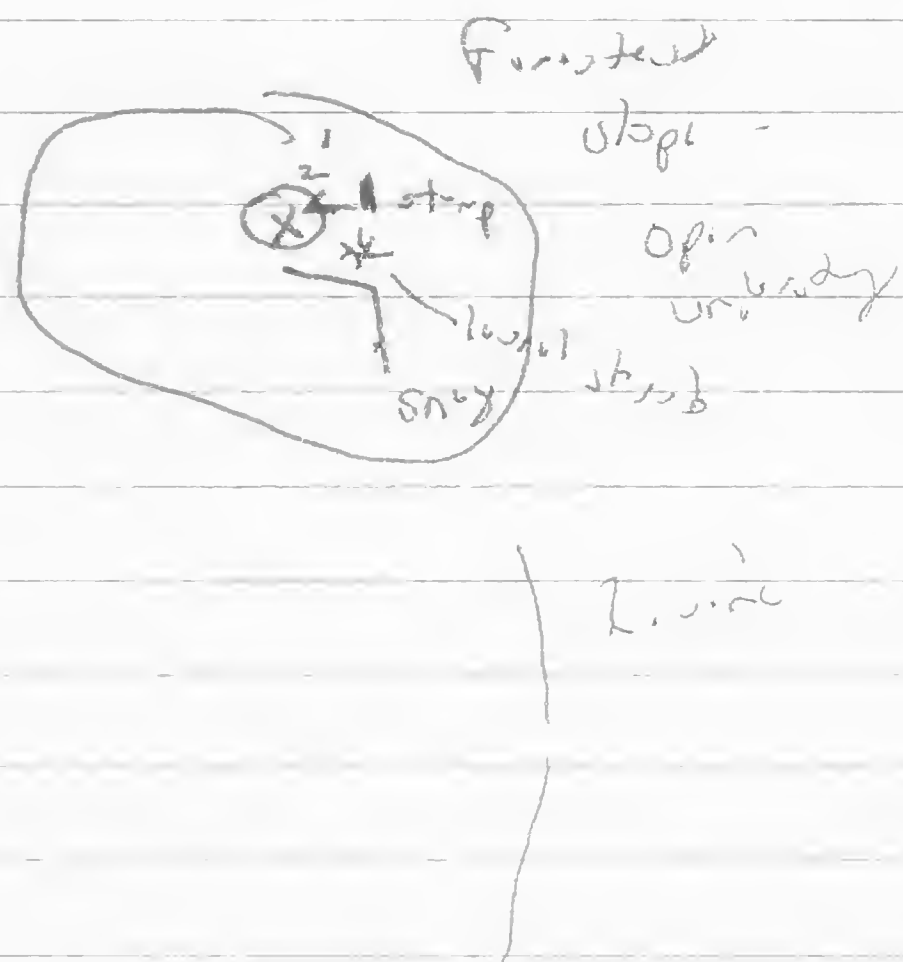
-U

C. Oak 50

-U

10/1500

Map to B&W Warbler
nest



Saw ♂ on corner of road - saw it
✓ 1st forest x 3
thing on
about 20' up.



2 June 830 -

I check slope below white trail
+ saw ♀ B&W Warbler off nest
it was in small tufts + foliage
glanced a couple of times (also
creeped in the trunk)

I watched singing ♂ W&W -
probably the same bird

I followed 5/31.

As I watch ♀ come in
chattering softly with start
in back. ♂ gave start
trail over g.

I also see ♂ shag-tail in

flight when ♀ went up to

(cray to feed, she visited


spot on ground repeatedly -

getting roosting. I certainly

found nest at base of

laurel about half finished

↑ laurel
↓ stump - Klorner
|| stump

Big Rock


♀ Forged many in subcanopy

✓ cherry trees (161-181 1691 x 5

15-25' up. as did ♂

♂ at base of mountain was

singing as well.

Insect count

1230 sunny-windy

Broad leaves

Maple TO -

1cm #1 in green

caterpillar 1b

1mm thrips 1b

Hickory

TO 3mm wasp 1b

C.O

TO 2mm spider 1b

C.O

TO - 0

C.O

TO 1mm tick 1b

Hickory

TO

C.O

TO 2cm long 1b

Maple

TO - 0

C.O

TO - 2mm spider 1b

roll-neck

C.O

TO

C.O

TO roll-neck

C.O

TO = 0

C.O

TO - 0

C.O

TO - 0

700

C.O

TO

C.O

TO

C.O

TO - 0

C.O

TO

Hickory

TO

1st cut small 3mm ^{acorn} larvae

Maple

TO

3mm wasp 1b

C.O

TO

Scimitar

TO

2nd pull 1b

-

1150

C.O

TO

Hickory

TO

2 & 3mm wasp 1b

M_{1/2} TO 1st roll - made

M_{1/2} TV —

H_{1/2} TV 5mm milk lb

C₁₀ TO

C₁₀ TV

M_{1/2} TV

4/1500

A. Gould

~~1st~~ TO

0

TV

0

TV

0

TO

TV

1. Ten thin fish
'p. 11' ✓

TV

TV

TV

TV

TV

TV
TV

TV

TV

TV

TV

3mm long, 1 lb

SD

SD

SD

SD

SD

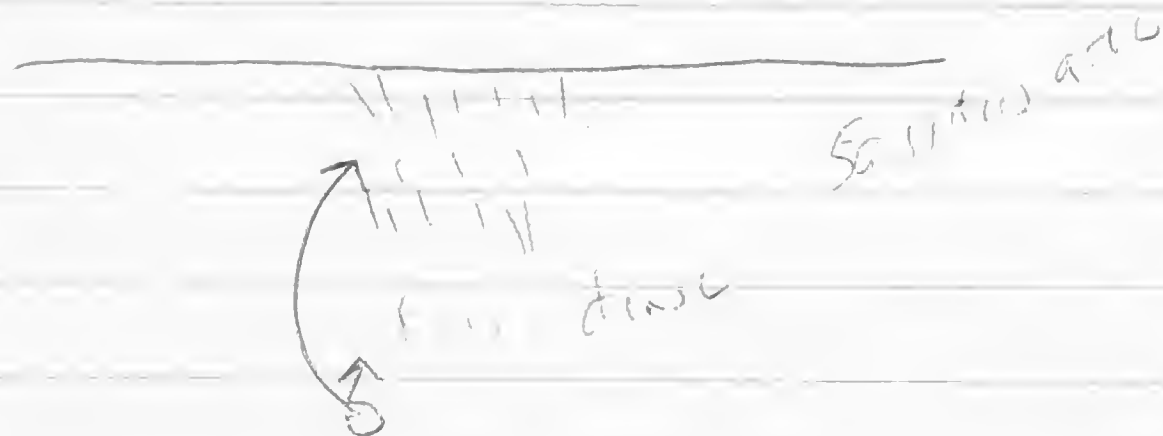
SD

2mm spider (+
(pl. and 1st))

2/1,000

saw 5 below white trail sing 12

underly 6' - local 1bgl x 6,
sub. 1st



1/2

checked corner territory area
& found no warblers

I then checked slope where Bth Warbler.

nest still had 5 eggs.

I check nearby at mid-slope

saw 4 at 1st tree ridge

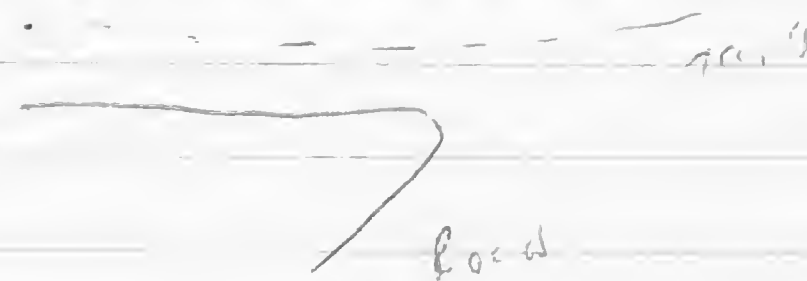
6-10' Oak 1bgl x 3

lost 15 1bgl (1 caterpillar)
hang 1b x 2

Poliocted Woodpeckers feeding young - new

played

4 (mostly)



Leaf Collection #3

σ

base tree

Spiders
 1mm III (3)
 4mm III (3)
 5mm ~~III~~ II (7)
 9mm I (1)
(14)

Millipede
 14mm (1)

Dipteran
 "gnats" ~~III~~ ~~III~~ (10)
 6mm I (1)

Grubs
 8mm I (1)
 12mm I (1)
 13mm II (2)
 20mm I (1)
(5)

"Thrip" 5mm (1) + eggs

Moth caterpillar 1cm

pupae (lep) 10mm (1)

beetles

1mm II
 5mm I
 6mm I
(3)

Leaf Collection #4

circle

Spiders
 1mm IIII (4)
 3mm III (3)
 4mm II (2)
 5mm ~~III~~ I (6)
 Total = 13

millipede
 15mm (1)

Opiliodon
 3mm (1)

Grubs
 10mm I (1)
 11mm II (2)
 Total = 3

Ant nest (one)
 with eggs
 and pupae

Beetles
 1mm I (1)
 2mm I (1)
(3)

Moth caterpillar 1cm

1/3 830-1330 mostly
sunny & warm.

I went up road &
checked corner territory &

territory above path - Currier's

was singing over ravine later

in morning - but I saw

no ♀

I found ♀ & ♂ WEL

fairly low in undergrowth near Pile-hy

✓ Woodpile nest (1 by 1 ft in

Lowest 6-10') - ♀ sat rapidly.

I checked other W nest -

had 1 egg still - ♀ got off

nest & fixed on bark for

Several minutes before dropping

back on.

I checked slope over &

found no more WEL.

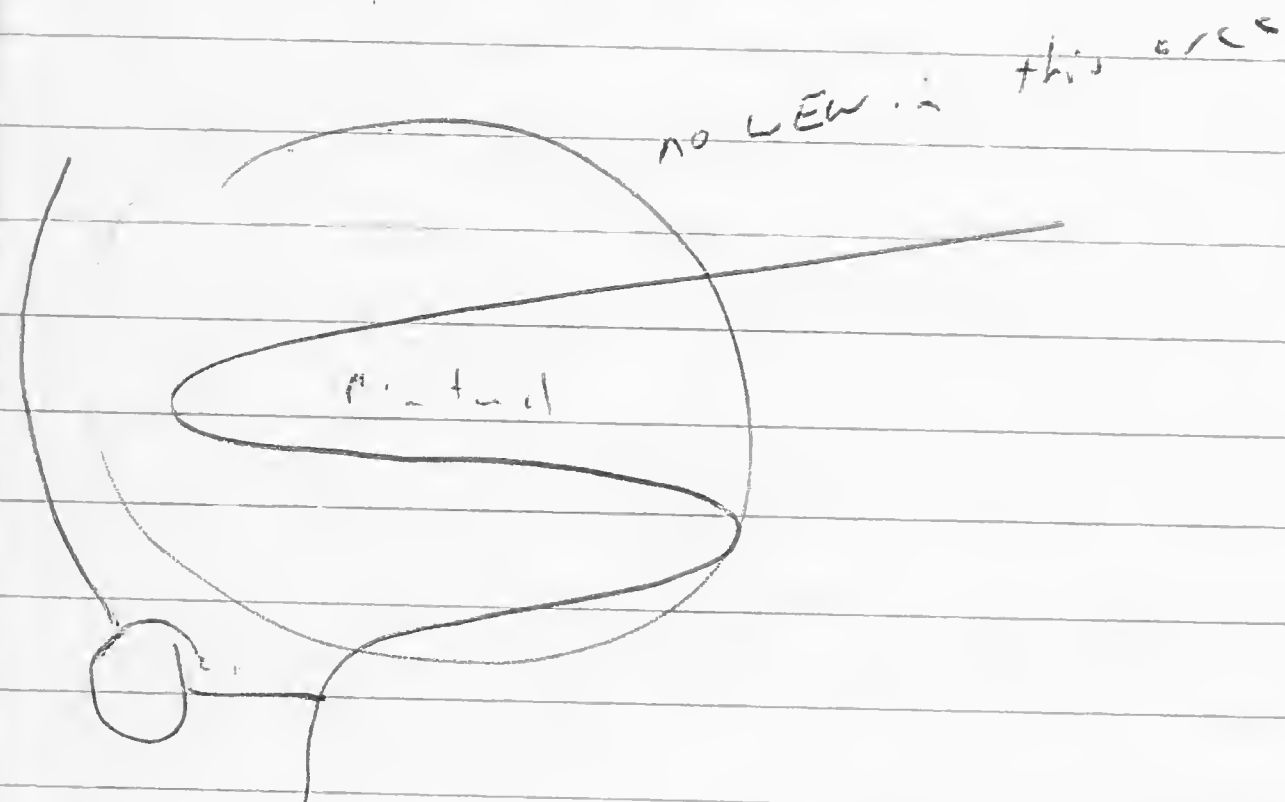
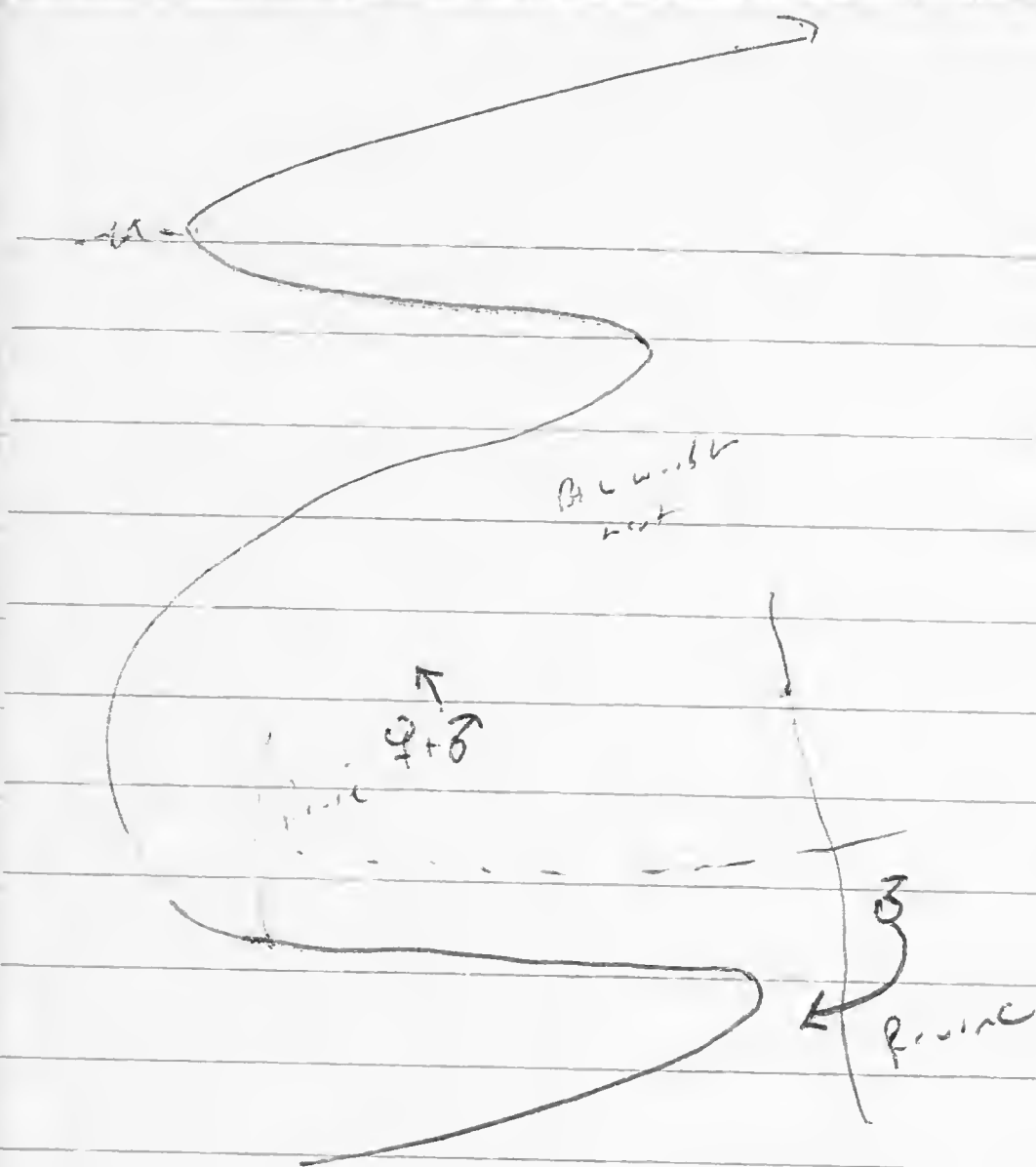
I checked area ^{along} ~~near~~ Circle

on slope & saw no WEL.

(saw 2 rat snake).

I collected Dead leaves &

first party lot.



5 June 1983 800 - 300 pm.
warm 80-85 high clear.

checked corner territory - ♂ sang briefly.

checked slope territory. saw

♀ off nest feeding rapidly - ♂

♂ was singing - ♂ & ♀ were close

♂ gathered 5-6 green grubs in
bill. couldn't see where he went.

Saw him down slope later.

Came back in afternoon singing

sang 5 - feeding rapidly - got sick

brown grub & went up slope,

Feeding:

✓ ♀ - locust 6' 1b gl x 5 1b hang.

✓ ♂ locust 6' 1b gl x 5, 1b hang x 1
1t gl.

Diswood 10' 1b gl x 3 - checked
dead oak leaf cluster
may have gotten something

common ♂ - locust 6' 1b gl x 3.

Found ♂ in dense grasses
thicket below white trail sing.

1 su ♂ on slope at mtn -

no gg.

checked nest of built on 1/2

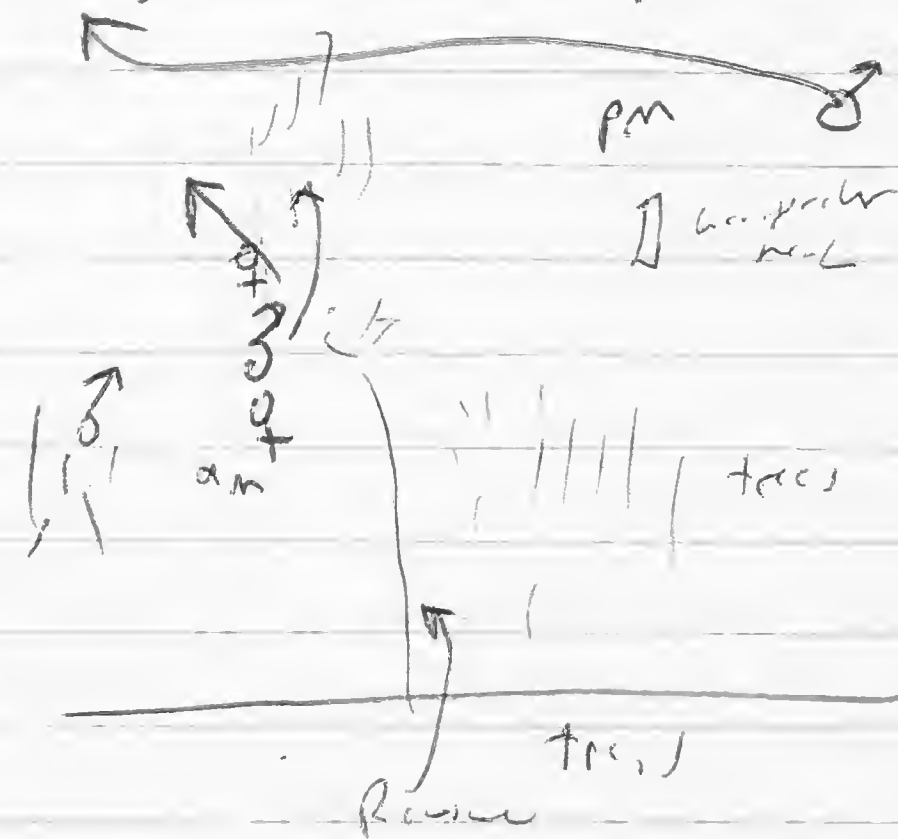
& ~~it~~ it was complete with

no eggs.

B+W warbler nest had 5 eggs

see no warblers

Territory on low slope:



1/6 insect census

- 1 35 ♂ Jan sp. 1st
2 50 C.O. 1b
3 50 Dogwood
4 50 P. wood 2mm sp. 1st
5 50 Oak
6 50 S.O.
7 50 Oak
8 50 Oak
9 50 2m fly 1st
10 50 1st
11 50 Dogwood
12 50 2mm sp. 1st
13 50 1

14 Birch

1cm to 1st 1st

15 Oak

16 ? 50

17 ? 50

18 C.O. 50

19 H. 50

20 P. 50

21 50

4mm sp. 1st

22 50

23 1st 50

24 1st 50

25 50

4mm sp. 1st

26 1st 50

27 100-50

28 50

3mm back 1h

29 50-100

30 100 100

Level 1

1 50

3mm 2m x 1m 1b

2 50-

3 50

3mm clatrid 1+

4 50 - 0

5 50 0

6 50 - 0

7 50-0

8 50-0

9 50

1 3mm sp. 1r 1b

10 50-0

11 50-0

12 50-0

13 50-0

14 00-0

15 00-0

16 00-0

17 00-0

18 00-0

19 00-0

20 00-0

6 June 930-330

Went up with Kim young.

Spent most of morning

staking out slope next-

to borrowed from location

on upper slope - saw 8th ferry

✓ 1st locust tree - 1bys x 6 -

1bys x 2. 1d 8 sing short song

on way to next area.

checked nest on side of Sycamore

mt. of sing ²⁰⁻90' in cherries

See no foraging yet

all over slope but no luck

♂ on ~~lower~~ below white trail

quiet.

Found new ♂ in understory

below ^{upper} parking lot. Followed it

as it sang in a small

✓ circle. Lbgl x 4 6' in Laurel.

Went back down + found

nest on lower slope -

One day old chick + 2 eggs + 1 warbler's egg

♀ shut off nest on

ground silently.

7 June 930-960

checked ~~on~~ white trail -

♂ singing below surface ground.

didn't see it.

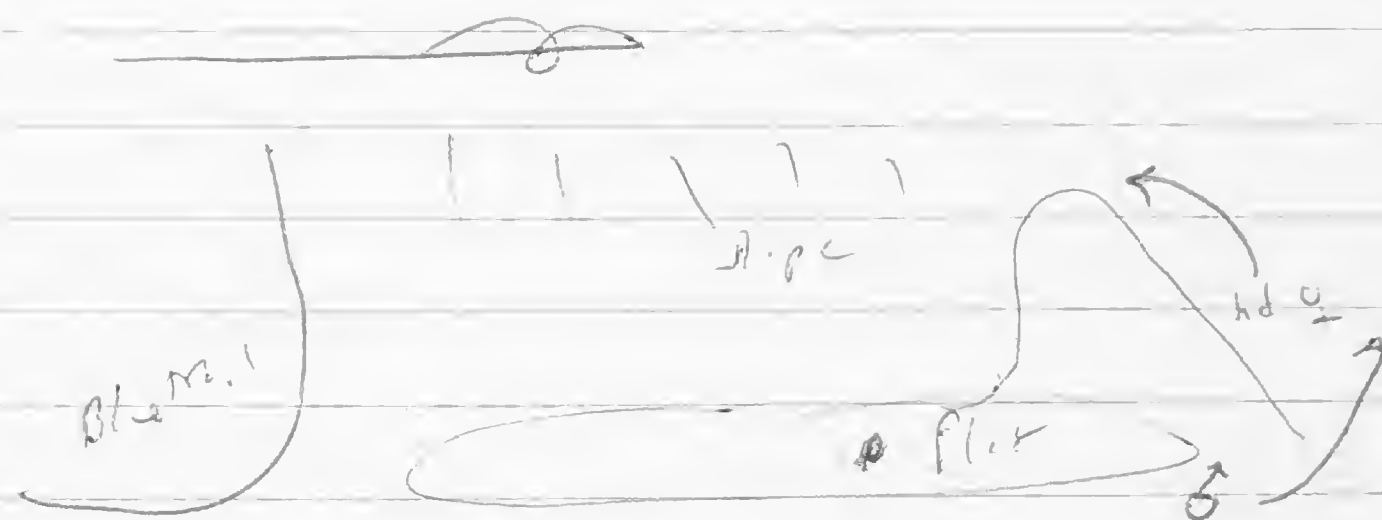
♂ singing at Parking lot lot area!

cut to blue trail + checked out

territory at corner in blue trail -

no hawk.

saw pair on slope:



♂ giving sing & short

sing from underly - short

birds chipping

✓ 4-6' laurel; 1bgl x 8 dead lot (Oak) x 8
↓
1 2cm r. h. p. l. g. s. e.

I watched ♂ on

breeding below parking lot.

I've never had this bird

below. ♂ sang sporadically

many from laurel shrub

at one point it came

close to ground - I watched

this was a bird attack

later & gave short tail -

likely once to check out

Foraging:

Laurel 6' - 1bgl x 4

✓ C. Oak 15' 1bgl x 2

Laurel 4' 1t h. s. x 2 - p. ill.

Laurel 6' 1bgl x 4

1-2' off ground 1t g. l. s. h.
ground forage.

B+W Warbler - 4 new babies! 1 egg

WEW nest - slope - 3 subbird
babies - 1 ad
a destroyed warbler egg.

Insect (cous) - broad leaf plants

1 JO - O

2 ? - O

3 Myla

1cm moth lb

4 B. 12 - U

5 Myla

6 ? 2cm moth 1+

7 ? - O

8 ? - O

9 ? - 4mm moth lb

10 ? - O

11 ? - O

12 - O

13 - O

14 - O

15 - 1mm sp. 1h

16 JO - O

Myla

17 - O

18 Myla 4mm (c. 1h)

3mm honey sp. 1h

19 Myla - 3mm sp. 1h

20 Myla 3mm sp. 1h

21 B. 12 - O

22 ? - O

23 2mm sp. 1h

24 JO - O

25 Myla - O

26 - O

27 B. 12 + JO - O

28 B. 12 + JO - O

29 B. 12 + JO - O

30 C. O. 4

1 B. 12 + JO - O

- O

48 Sugarloaf - top 830-300

I checked out territory below

top parking lot. - ♂ was ...

area growing short grass - but

I didn't see or hear ♀.

I saw hyperphrynos bird in

✓ Cherry over parking lot 20' - 1 bgl, 1 bhang.

I checked territory below white pit -

had ♂ + probably ♀ as well -

below Safford's grave. - that's all.

Didn't see or hear ♂ on slope

at mtn.

at beginning of horse trail (just

below parking lot - had ♂ probably

♂ from territory below lot.

✓ Song from laurel - 1 bgl x 2.

At ^{beginning} of horse trail +

blue trail (down horse trail 20 m)

✓ I saw ♀ feeding in laurel (1 bgl x 10

1 bhang x 1) 1 bgl large sat ^{1 cm} pillar from

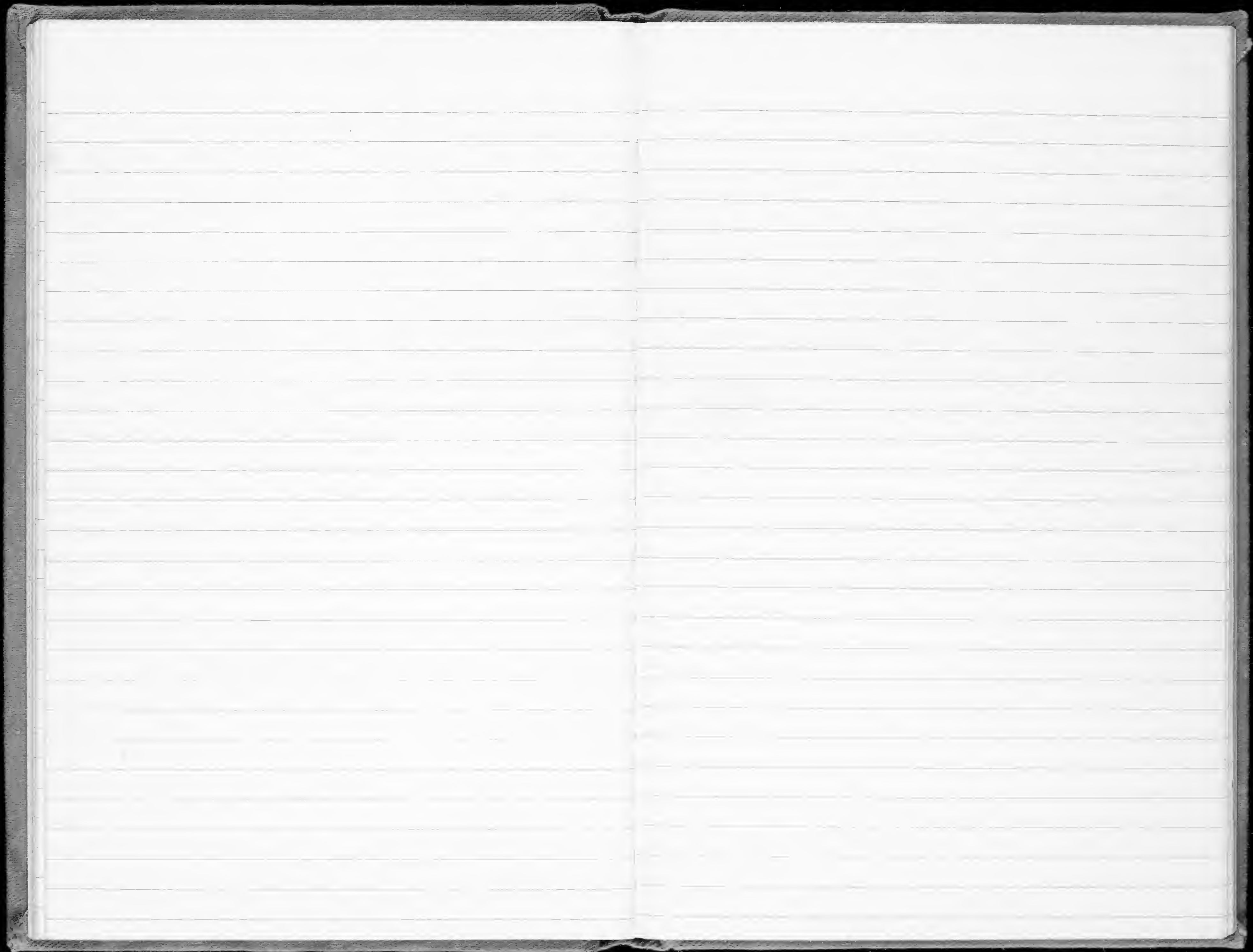
pet. etc.

followed to left side of

trail + lot etc.

went to pit I saw

yesterday at cave of



blue tr. l. After 1 hr saw

pair - they were quiet + tame

& 2 g. + l. t. , + foraging data

✓ 1b gl at Laurel x 20 Dried leaf probe x 5
(got one thing)

1b hylar 6" x 1

1b hylar x 2 - got 2 green pillars.

saw looking & one bird sunned

itself.

♂ B+W warbler was feeding

a newly fledged bird

June 9 200 - 3:00 pm

I checked territory below parking lot
♂ was singing - further down slope
than I had been looking for nest

✓ 30' in Oak - dried leaf check → Laurel 6' hylar x 3

We X Jim Lynch + I checked territory

below white trail - ♂ chirped at

me after I was mobbed by chickadees

it was initially in 15' scruboak

✓ 1b hylar to 8' Laurel - dried leaf check
flower gleam.

I found it in the same area again.

♂ on slope of mtn was silent

nest by white trail had 3 eggs +

♀ incubation.

The big news is that pair
at highway at white trail were
heard from - ♂ was singing 30'
in Oahu & Jim Lynch thought
he had ♀ as well.

I checked area at Hurstail -

Blue trail Junction. & some

of Blue trail: for is 2

✓ Saw singing ♂ 10' in Pine tree (burdick x 10)

foliage green too), I saw

✓ bird in some area & followed

pair together - 4' in level - (bag) x 3.

on 15th like I saw them &

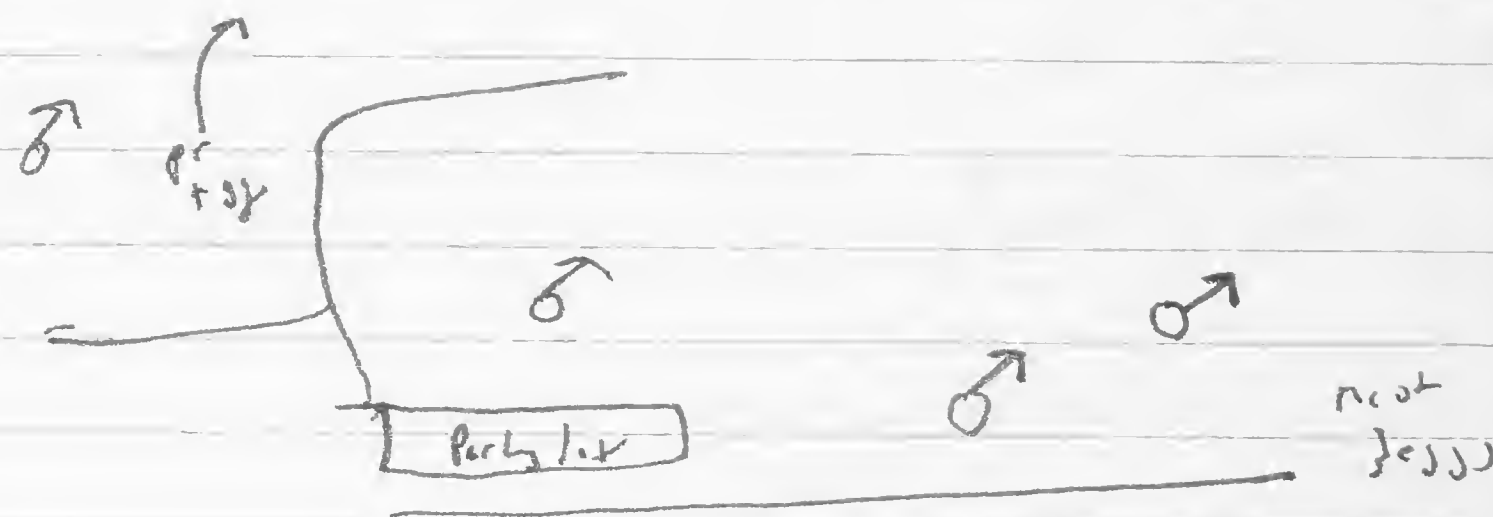
1st fledged baby (short tail - still

short bill &
some head down & baby lips).

it flew well - too well

to follow

B+L warbler nest was empty!



12 June - Hot First fully sunny

I checked corner territory -

road up - my line had chipmunk

at bend saw pair with young

0-6' up quietly - fairly well

some ~~of~~ looking & preening (♂ sang briefly)

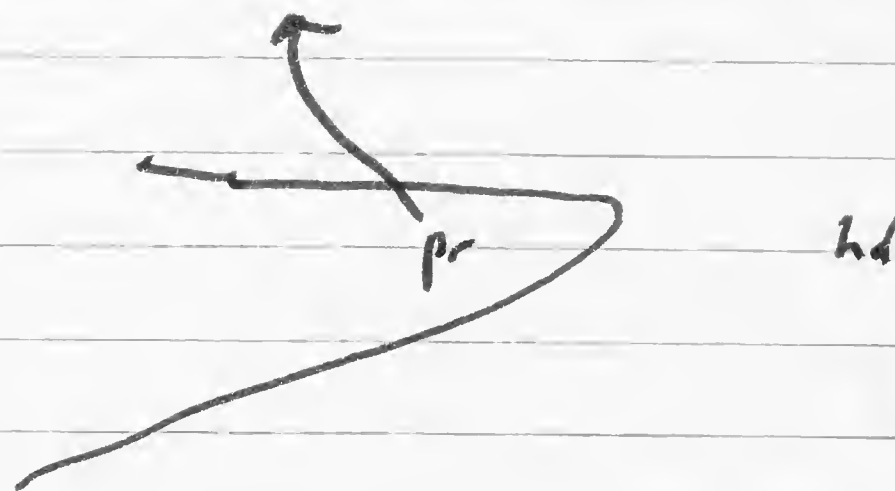
✓ Ground tree x 3?
1 hgl understory tree (b, lot)
1 hgl understory

1 tgl - honey suckle vine
branch gl x 2 (1 puller)

Pin to large gl x 2

my be slope - not birds -

nest was checked - was empty.



check slope territory below ch. trail -

no hys. Also no could find

territory on side of mtn.

7 hd + saw 5 on territory

below partly lot for two - one h -

perched

✓ Oak 30' 1 hgl x 4
Maple 20' 1 hgl
Linden 4' 1 hgl x 4 flower probe x 3

No sign of y - 3 high

going round in circles

I followed.

3 song + pretty song
pretty

no note

white tail

no note

13 June

leaved (over)

1

2

3

4

5

6 - 2nd high up 1st

6

7

2nd high up 1st, 4th up. line 1st

8

3rd fly 1st

9

3rd fly 1st

10

3rd fly 1st

11

" " 1st

12

" " 1st

13

" " 1st edge

14

3rd fly 1st

15

16

17

18

19

20

21

22

23

24

13 June hot 800-230
7 chick hatching below party lot

3 hrs in morning + 1/2 hr in
afternoon. lot of action on

upper slope where I suspected

nest might be - ♂ singing -

they short-sung + 2 sing ♀

✓ Briefly [Oak 20' 1b g (x2)
5 ft small pillar

saw bird new sound once.

I wandered on slope below

thru trail + Blue trail

1st ♂ seen ♂ sing

✓ 30' in oak 1b g (x4)
highest tree oak leaf

saw + hd pr + at look

one juvenile wing down slope

down blue trail. ♂ sing

perched on ground young.

young - w. = first on

seen - perched in level +

fly up into oak. - high

twittering contact note to
parent.

14 June - sunny hot 830-430

I check territory below white trail

This morning. ♂ sang +

✓ I see it 25' in O.u. (hang on DL Oak)

then I see presumed ♀ with

green grobs in bill back in Level 3-5'

✓ 1b gl x 4 1b lg x 3 knock + drop to ground 2

I spent until 2:00 kept to

see where nest was + only

1 ♂ a couple more times

At trail I saw broody ♀ fly across. I feared mealy

first - in 10 minutes I saw it

feed 114 times, A. I probably

fed more = ~~40~~⁵ times + k + drop

✓ to ground once for a pill.

2 times 1t gl., 2 times lg

x 5 times hrg + 100 times 1b gl

mostly small (I see only 4-5

pillars go down) I had 5 more

+ saw broody ♀ Bth w/ h/ h/

bird-singing

Leaf collection 5 June 5
1st parking area.

Grubs 4mm 1
10mm 4

Spider 1mm 2
4mm 4
5mm 3

Hemipteran nymphs
2mm 1
3mm 2

Beetles 1mm 2
3mm 2

Weevil 6mm 1

Ant 5mm 1

Moth 1mm 1
1mm.

Leaf Collection 1 May 19
Top parking lot

Spiders 1mm 2
3mm 1
5mm 26
7mm 5

Grubs (Hug)
4mm 1
8mm 2 (1 green)
12mm 1

13mm 1

Beetles

1mm 2

2mm 1

4mm 1

5mm 1

8mm 2

Grubs 1mm 82
fly 2mm 2
yellowish black
1mm 2

leaf hoper 6mm 1
spider 1
5x 1mm 2

Spiders (11)
3x 2mm 2

misc. 15 1mm

beetle larvae
3x 5mm 2

weevil 6mm 1

May 26 Insect collection 2

Spiders ^{1mm} 13

8mm 5

Mite 2mm?

ant 3mm 1

Beetles

1 Hemipt.

1mm 3

15mm 1

4mm 2

17mm 1

5mm 1

Weevil 7mm 1

Flies?

4mm 4

5mm 2

G. b. 12mm 2

13mm 1

8mm 1

5 July 200 - 530

Leafcrawlers

1 ^{cherry} ~~Beech~~ - 4mm long 1b

2 " 2cm el. tree 1b

3 " - 0

4 Maple - 0

5 " - 0

6 " - 0

7 " - 0

8 Sweet gum

9 cherry 5mm beetle 1b

10 " 1cm ^{honey} 1b

11 Maple 1cm honey 1b

12 Maple 5mm beetle xL 1b folded

13 Maple

14 Maple 2cm green hemipt. 1b

15 Maple

16 Sweet gum 5mm moth 1b

17 Sweet gum

18 chestnut 5mm beetle 1b

19 Maple -

20 cherry - 5mm brown or honey 1b

21 Maple - 0

22 chestnut - 0

23 " - 0

24 Maple - 0

25 Maple - 0

26 Maple

27 Maple - 0

28 cherry 5mm ^{honey} 1b

29 chestnut - 0

30 5mm ^{honey} 1b

12/1500

Level (1000)

1 - 0

2 0

3 0

4 0

1cm green hump 1b

2cm green hump 1b

5 0

6 0

5mm brown hump 1b

7 0

8 0

9 0

10 0

1cm 1b green hump

11 0

- 2mm spide - 1b

1mm wip 1b

12 0

13 1mm spide 1b

14

5mm hump 1b x 2

15

0

16

4mm h. spide hump 1b

17

1mm green hump 1b

18

1cm sp. 1. cm + 1b

19

0

20

4mm h hump 1b

9/1,000

26 June 10-300

I worked on territory below
parking lot. I saw ♂ in
sameland by gap + it fed

✓ 4 times on lb 3' up. I checked

slope territory below Horse Trail +

Saw nothing. ~~I also checked~~

♂ churred (6) bird singing sweet song
later I saw ♀ redbird in understory as it
looking for nest

27 June 8-200

I worked on territory below

parking lot + localized nest to the

✓ actual thicket - I saw bird about 10 min.

in local + poke a small dead leaf

without getting anything. I

found nothing on slope by Horse Trail

Lots of chips + some song by ♂

I also checked slope by
lower picnic area + found nothing

June 28 300-500

Had to see 1 UAL in the

gap below parking lot - today

I had no singing at all even

when I approached nest area.

no foraging. Nothing on

slope territory

29 June

brood of 2 juv. \approx 2 wk old
(from middle of post juvenile molt

(almost full grown tails) -

on white trail near + in Joe. woods

grave.

Parents made forays 1-5 minutes

probably mainly ♀ - 2 LD

3 singing briefly. brood young small

prob - mostly green pillars.

✓ ♀ foraged on 16.51 (17x mainly) in

lurel - saw 2 dead lat chicks +

one large at D.L.

babies pressed & explored rapidly

I saw them both pick it

20+ different branches, 7 dead

leaves - & 3 live lateral leaf

clusters - they ~~are~~ picked &

grabbed at irregularities on bark.

I saw 1 set of lateral leaf

they seldom followed adults,

to feed. the family moved

slowly staying in one place

then halting - perhaps in response

to my presence.

29 June live cat ears

1 50 - Maple

2 50 - 1.0.4

3 50 1.0.4

4 50 500

5 50 1.0.4

6 50 Maple -

7 50 -

8 50 2m green scrub 1b

9 50 - 2m green scrub 1b

10 50 Birch

11 50 1.0.4

12 50 5m high dot 1b

13 50 24 1.5m green scrub 1b

1cm high 1b
5mm high dot 1b x 2
2mm high dot 1b

5mm high dot 1b

17 ov

18 ♂♂ Myle -

16 ♂♂ - 1455

17 ov

18 ♂♂ Myle

19 ♂♂ Myle

20 2 3 m spec 1b

21 ? 3 adult + 1 myrl

22 c.o.h - 0 Shm green honey 1b

23 o.h - 0

24 c.o.h

25 c.o.h

26 Myle ♂

22 chomst

28 c.o.h

29 ♂

30 c.o. -

13/1500

Larry

1 50

2 50

3 - 0

4 0

5 0

6 0

7 0

8 0

9 0 } low op. head 1b

10 0

11 0

12 0

13 0

14 0

15 0

16 0

17 0

18 0

19 0 } low green sub 1b

20 0

21 0

1/2, 110

July 5 continued

I watch WEW family along

Blue + white trail. Pr + 2 yg.

The young are essentially adult in plumage + are distinguishable largely by vocalizations + behavior. They are still fed every 10-15 minutes. They

covered the same area they did last week - staying low in low vegetation.

Juveniles still remained localized + parents foraged out to get food.

Given the dense shrubbery visual contact seems unlikely. The ♀ looked at

one dead adult, but on fog was high

✓ I saw 1 such forager - 7 of which were successful (2 for insectivores -)

7 were at low + 2 at high.

The young attempted prey at dead white lines 5 times - by jolts at low - 3 were 0.6 + 2 low.

I saw 25-30 glows at low + low bottom - some were successful. 2 high glows. Juveniles tumbled

to ground 2x + attempted 1 hoverglow.

I heard singing by ♂
but no singing

At first the group seemed
loosely associated with
chickadees. Later I saw
♀ glow leaf leaf bottom twice
to feed young.

I checked out birds by
clearing ~~the~~ below
pry lot. Bird came into squirrels.

pair was feeding two th babies

in dense thicket (they went

to two shrubs) I only had

warbler begging chips - no (subbird).

✓ adults picked at dark (11:00)

→ times - all dark - once the bird

hung over to perched leaf.

it began to rain at
clearing shrubs 15 times & got
one sparrow to bring to young.

Young must be quite young.

6 July 1-5 pm

I checked along White + Blue trails + down slope from blue trail for LEW. One mobbed me in area below parking lot - but I saw no foraging.

I found a family group (2-3 ygs) near top of Susiloot (Red trail). Initially an adult joined chickadees mobbing me - in dense sword grass. I followed it to family which was in laurel understory. I followed into gap & then they went into oak canopy.

The young were old & indistinguishable from adults - feeding by parents was infrequent. & all birds fed actively. The association was loose with parents usually in different trees.

✓ From young. I saw 2 dead (not pecked) (no success) & 8-10 glaucous -

2 to Oak, 3 to laurel, 1 to grape & 2 to Apple tree? (old Orchard). Adult carried a large beetle to feed.

On backside of Mtn I saw ♂ with green grub - 116 glaucous ~~to~~ cherry. it was probably going to a nest somewhere.

7 July 2-5

Live leaves

1 - 5000

2 - 0

3 5mm black beetle 1b

4mm spider 1b

4 Beetle - 0

5 - 0

6 5000 - 0

7 ? 0

8 5000 5mm brown hump 1b

5mm brown beetle 1b

9 ? 0

10 ? 0

11 C.O. 2mm beetle 1b

12 0

13 0

14 C.O. 2mm hump 1b

15 5000 2mm hump 1b

16 5000 1mm moth 1b

17 ? 2x 5mm beetle 1b

5mm spider 1b

18 1.0

19 1.0 1.5 cm crinkled 1b

20 0

21 0 Myle

22 Myle - 0

23 Myle - 0

24 5mm cricket 1b

25 Myle - 6

26 ?

4mm caterpillar 1b

27 5000 - 0

28 10. 2cm green hump 1b

29 0

30 0

1000

12/15000

10

20

30 5mm hump 1b

4

3mm hump 1b

5 0

6 0

7 0

8 2mm hump 1b

9 0

10 0

11 0

12 0

13 0

14 0

15 0

16 0

17 2mm hump 1b

18 1mm beetle 1b

19 1cm op. 1b

20 3cm x 2mm green sub 1b

5,1000

Drill bit
Insect biomass 1983

Sample	My-line			
1a	.1234	.014	.0417	
1b	.1028	?	?	
1c	.106			
1d	.046	.008	.034	?
1e	.057	.008	.025	?

Jan-July

2a	.194	.022	.01	-
2b	.153	.029	+	.002
2c	.229	.034	0	tree
2d	.212	.025	+	
2e	.2366	.012		.005

1/4 July, insect biomass

1	My-line 0	21	?	0
2	" 0	22	My-line 0	
3	" 0	23	My-line 0	
4	My-line 0	24	My-line 0	
5	My-line 0	25	My-line 0	
6	My-line 0	26	My-line 0	
7	My-line 0	27	My-line 0	
8	My-line 0	28	My-line 0	
9	My-line 0	29	My-line 0	
10	My-line 0	30	My-line 0	
11	My-line 0	31	My-line 0	
12	My-line 0			
13	My-line 0			
14	My-line 0			
15	My-line 0			
16	My-line 0			
17	My-line 0			
18	My-line 0			
19	My-line 0			
20	My-line 0			
21	My-line 0			
22	My-line 0			
23	My-line 0			
24	My-line 0			
25	My-line 0			
26	My-line 0			
27	My-line 0			
28	My-line 0			
29	My-line 0			
30	My-line 0			
31	My-line 0			

Level

1 0

2 0

3 0

4 0

5 0 3m high right 10

6 0

7 0

8 0 2m high right 10

9 0

10 0 2m high right 10

11 0 2m high right 10

12 0 2m high right 10

13 0

14 0

15 0 3m high right 10

16 0 2m high right 10

17 0

18 0

19 0

20 0 2m high right 10

21 0

2/1/00 0

7/1/03

Broad

Run 100m 5 10

100m 10

100m 10

100m 10

From 290-490 I followed

the bank above the parking lot

I found a small bank below

the gap I followed it. It was 20m

wide & very low. 24p.

The bank was a little (2-3 m) higher

than the Run. In some

places it was 10m high. I also saw

some small bushes.

They were relatively

young & still growing. The older

ones were 2-3 m high.

They were 10-15 years old.

They were 10-15 years old.

Wasp on the nest. Wasp on the nest. Wasp on the nest.
(1) on the nest. Wasp on the nest.
not any chips - not the adult.

The nest had 0-20' up 10' up
✓ 5-10' I saw 20' up 10' up
2-10' up 10' up 2-10' up

✓ I saw 20' up 10' up 2-10' up
g-p. 20' up 10' up 2-10' up

g-p. 20' up 10' up 2-10' up

I saw 12 20' up 10' up 2-10' up

7 20' up 10' up 2-10' up

or one successful - low pillar at

was dropped. One 2-10' up

g-p. 20' up 10' up 2-10' up

low - one back down to 10' up

low - one back down to 10' up

low - one back down to 10' up

low - one back down to 10' up

low - one back down to 10' up

low - one back down to 10' up

low - one back down to 10' up

The nest. The nest. The nest.
generalized.

Transcribed notes

15 June 9-900

I check territory below parking lot.

♂ was singing as usual but I

failed to see q. I then check

slope territory below white trail.

♂:♂ interaction - like yesterday

♂ 20' oak branch 10' x 3

switched back. Both like a BHW.

10' 10' gl - no q.

later I saw q - also, trail &

✓ in lower 3' 10' gl x 3 - got one

pillar.

I saw q collecting pillars on lower

territory at 3:00pm & she 10' gl x 7

✓ in lower. I saw q on a bird
off nest!

I also saw Blw Warbler

territorial boundary dispute

one ♂ gave a chirp

staccato chirp & it followed

twice, stopped a bit

June 17 800-330

I check territory on slope

below white territory. As in

past two mornings, the ♂ was

singing close to neighboring ♂ -

but there appear to be 2

close neighbors.

Songs are interspersed with

the (canary-like) song when

♂♂ are close. I saw ♂

♂♂ 2 & 4 in Azalea &

peach leaf forage. I heard

chipping of adults from

territory closer to

parking lot on the

same slope - but I didn't

see the birds (♂ started

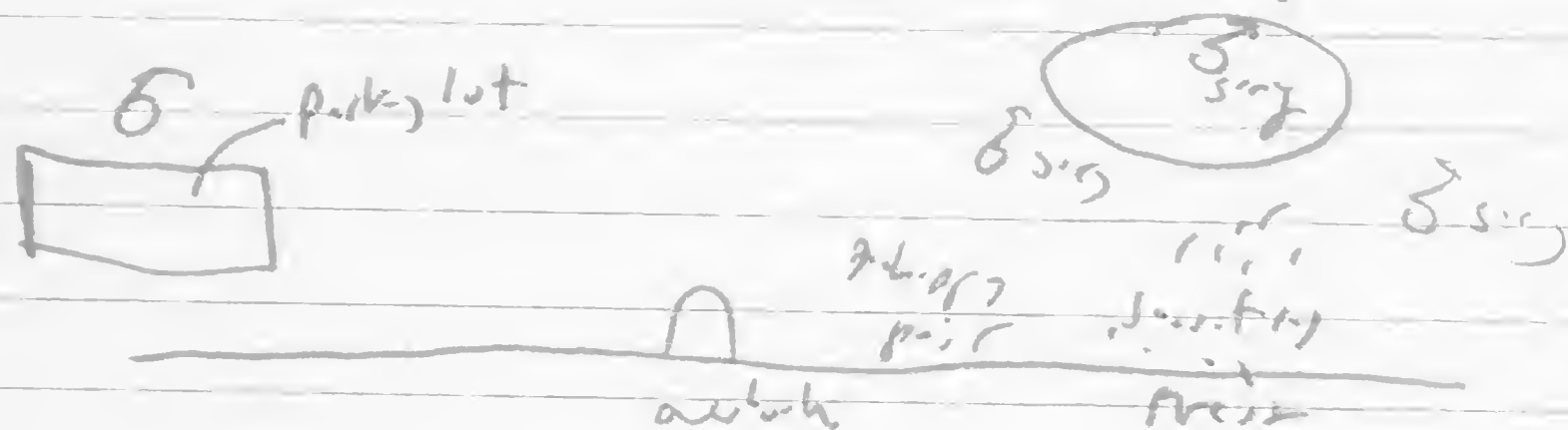
singing).

I checked territory below
parking lot + δ was singing

a) well. but I didn't see ϕ .

I check slope below horse trail

but I didn't see anything



June 18 830-430

I checked territory below
white trail (3 hrs) δ sang

and dropped into laurel
1651 x 7 4' up
✓ 16 1651 x 7
got one pillar

neighbor δ sang + I had
only the song once.

I found a pair at Rocky
✓ overlook on white trail ϕ 1651 x 2 in
laurel 6' + fed a very young
chickling. δ sang briefly.

ϕ had a beetle or spider to
give baby. Baby ^{perched} ~~perched~~
still on laurel branch

I then spent 4 hrs on
territory below parking lot

I saw ♀ off nest - fast feeding.

1 b gl in laurel x 10

5 or 6 extra 1 b gl x 6

✓ curled leaf pick x 2

watched for it minutes ♂ song

short song - but lost it

I didn't see it again.

22 June 1230-1730

I check territory below

parking lot for several hrs -

the birds were observed together

going up slope + I also saw

them near the parking lot -

one my hawk had caterpillars in

bill. I found nest

with egg but its probably tucked,

23 June 800-400

I checked territory below

parking lot. Saw birds, again up

slope 2-3 times ♂ sang

short song a canyon warbler

✓ times. ♀ was B' in Azalea.

I saw 7 (bgs) in Azalea

(1 pillar) check at dead

leaf cluster (no leaves) looked

on ground once. I saw a

pair of ? on slope below house

tr. 1 ♂ had 'pillin' ya bill

of got off nest - I saw was

20-30' in Oak +

checked 7 dead leaf clusters

✓ in a row rapidly.

I later saw ♀ ⁱⁿ some are

✓ I also saw ♂ feed 1b, 1 & 4.

June 24 930-1230. very hot

didn't see birds on house

tr. 1 slope despite 3 hrs

search. I briefly saw ♂

on slope below parking lot.

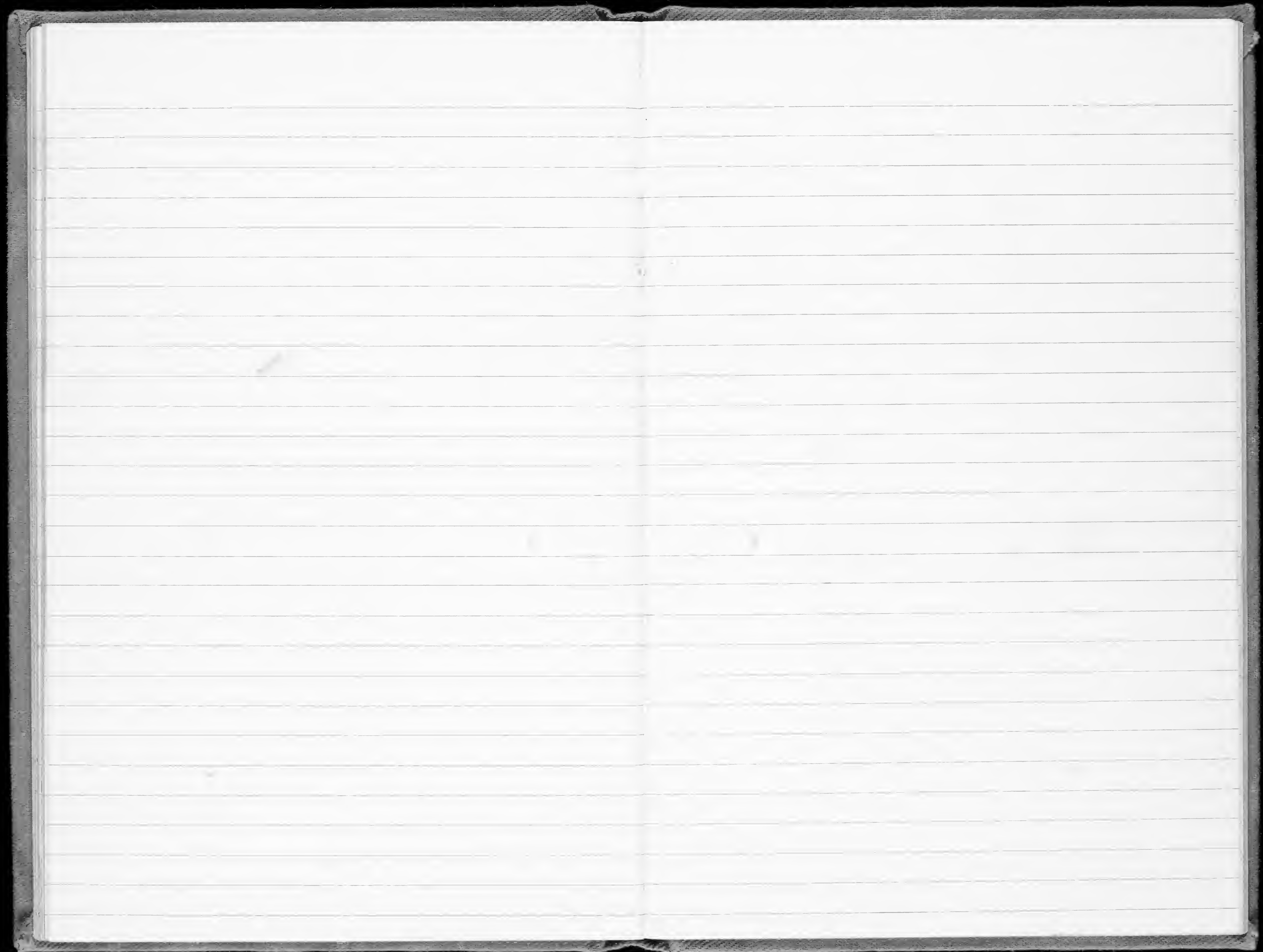
[I saw B+W warbler ♂ 1b, 1 & 4

& check a dead leaf, also

some leaf litter on Rubeo]

Got Merly + Rubeo today

from nest below white tr. 1



Occult leaf size

Sample 1 - non deviated from size

3(1)	2	5	2	4(1)
5(3)	7	5	2	4(1)
6(3)		6		
4	4	5	5	3
4	1/2	3	4	2
3	4	3	5	2
5	3	3	3	3
6		5	3(1)	3
8	8	5	2	3
2	2	5	2	3
2	5(1)	3(2)	2	3
2	4	3(2)	2	3
3	3	3	2	
6	4	3	2	
4	3	7	2(2)	
	5		2(1)	
3	2	2	2	
5	2	2	2	
3	2	3	3	
2	2	3	4	
4	5	3	3	
4	4(1)	3	3	
2	4(2)	4	3	
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Sample 2

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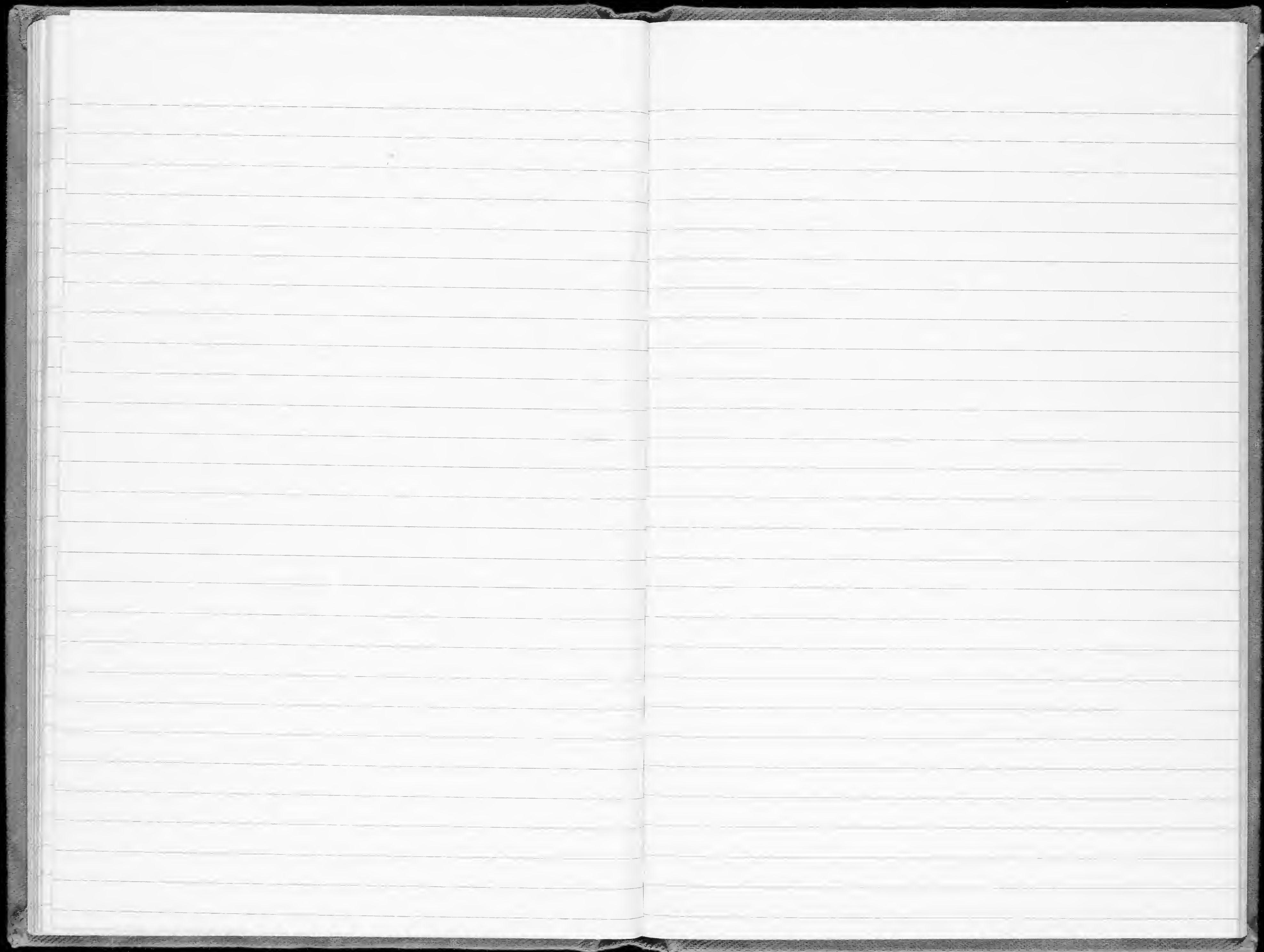
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		Total %
May-June	2	10
	2	4
	3	4
	6	8
July	laurel	regular
	9	12
	5	10
	1	12
	8	7
		$\bar{x} = 10 \approx$
		21
		18
		13
		$\bar{x} = 17$
		15
		16.5

2/1,00

